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IRRIGATION DEPARTMENT, PUNJAB.

ADMINISTRATION REPORT

FOR

1921-22.

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ADMINISTRATION REPORT FOR THE YEAR 1921-22.

Part I.

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PUNJAB CANALS.

YEAR.				AREA IRRIGATED, IN ACRES (FINAL FIGURES).		
				Punjab Canals.		Total.
				Major or Pro- ductive Works.	Minor Works (classified as un- productive and non-capital from and after 1921-22.)	
1887-1888 ...	...	...	...	1,422,775	923,817	2,346,622
1888-1889 ...	...	...	...	1,753,337	1,001,027	2,757,364
1889-1890 ...	...	...	...	1,887,601	1,062,006	2,949,607
1890-1891 ...	...	...	...	2,012,689	1,016,552	3,059,241
1891-1892 ...	...	...	...	2,187,487	1,104,295	3,291,782
1892-1893 ...	...	...	...	1,817,892	1,091,413	2,912,295
1893-1894 ...	...	...	...	1,903,651	974,618	2,878,272
1894-1895 ...	...	...	...	1,855,859	1,075,192	2,931,050
1895-1896 ...	...	...	...	2,858,157	939,200	3,797,357
1896-1897 ...	...	...	...	3,661,517	960,110	4,621,627
1897-1898 ...	...	...	...	4,055,898	1,158,361	5,214,259
1898-1899 ...	...	...	...	3,872,501	981,264	4,856,765
1899-1900 ...	...	...	...	4,384,972	850,981	5,211,953
1900-1901 ...	...	...	...	4,642,852	1,357,699	6,000,551
1901-1902 ...	...	...	...	4,491,833	981,521	5,473,359
1902-1903 ...	...	...	...	4,861,274	815,690	5,679,964
1903-1904 ...	...	...	...	5,610,787	779,547	6,390,334
1904-1905 ...	...	...	...	5,680,132	617,282	6,306,354
1905-1906 ...	...	...	...	6,163,371	751,067	6,914,438
1906-1907 ...	...	...	...	5,902,895	803,317	6,706,312
1907-1908 ...	...	...	...	5,515,386	521,558	6,039,944
1908-1909 ...	...	...	...	6,383,050	969,096	7,353,146
1909-1910 ...	...	...	...	6,117,004	969,607	7,086,611
1910-1911 ...	...	...	...	6,279,757	956,255	7,227,012
1911-1912 ...	...	...	...	7,469,615	862,217	8,331,892
1912-1913 ...	...	...	...	7,461,251	969,130	8,429,381
1913-1914 ...	...	...	...	7,351,721	971,743	8,323,464
1914-1915 ...	...	...	...	7,883,628	1,079,413	8,963,041
1915-1916 ...	...	...	...	7,982,532	902,279	8,884,811
1916-1917 ...	...	...	...	8,403,567	1,083,957	9,579,824
1917-1918 ...	...	...	...	7,956,358	1,077,513	9,063,901
1918-1919 ...	...	...	...	8,314,146	667,839	9,015,984
1919-1920 ...	...	...	...	9,503,480	948,228	10,456,658
1920-1921 ...	...	...	...	9,505,683	768,057	10,273,690
1921-1922 ...	...	...	...	10,401,914	843,959	11,245,873

From 1894-95 to 1915-06 the total areas shown are *net*; thereafter the areas are *gross*.

The areas include the Swat River Canal up to 1930-01, after which date the canal was transferred to the North-West Frontier Province.

DIAGRAM SHOWING TOTAL AREA IRRIGATED BY PUNJAB CANALS—MAJOR AND MINOR WORKS

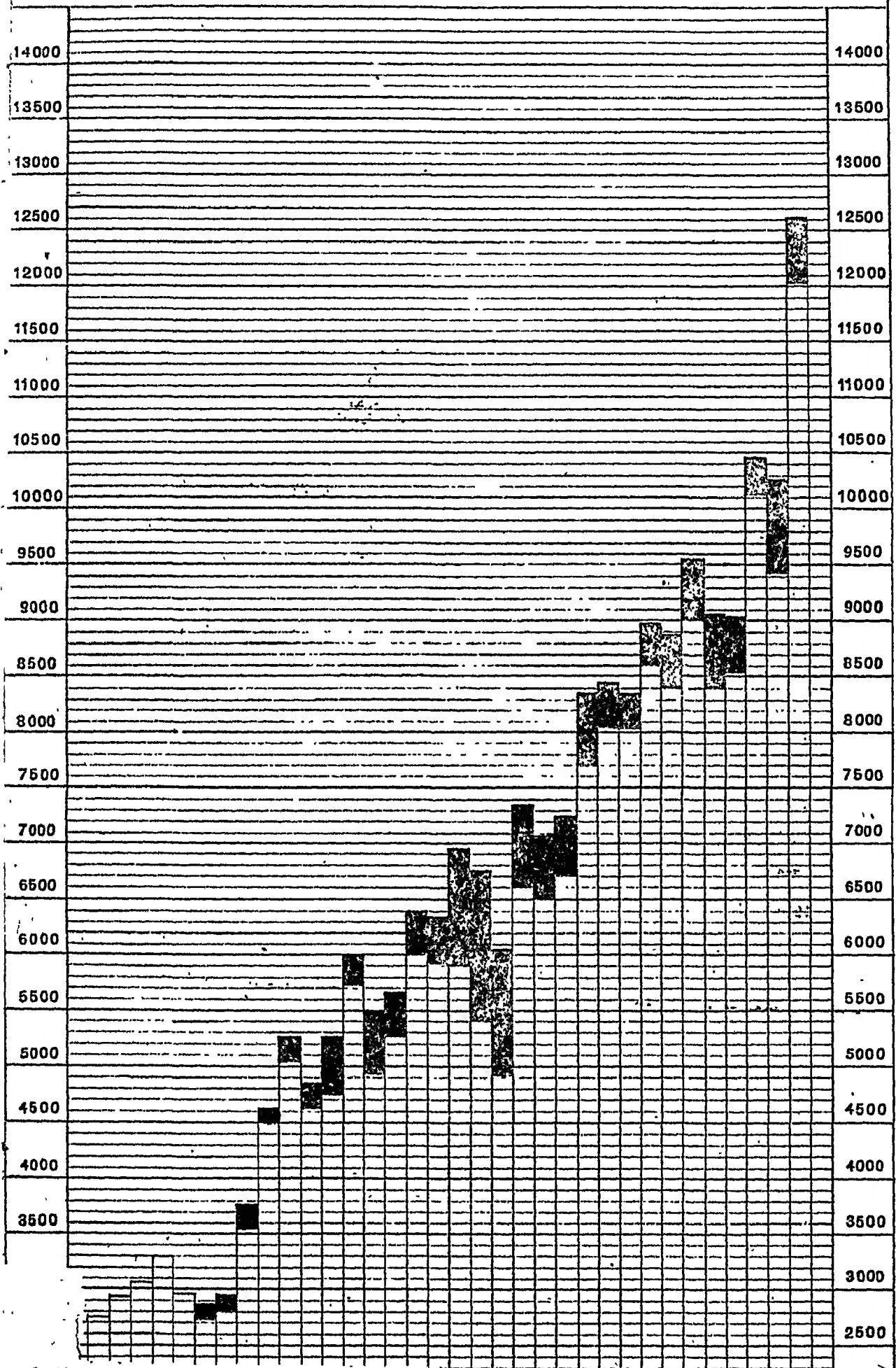
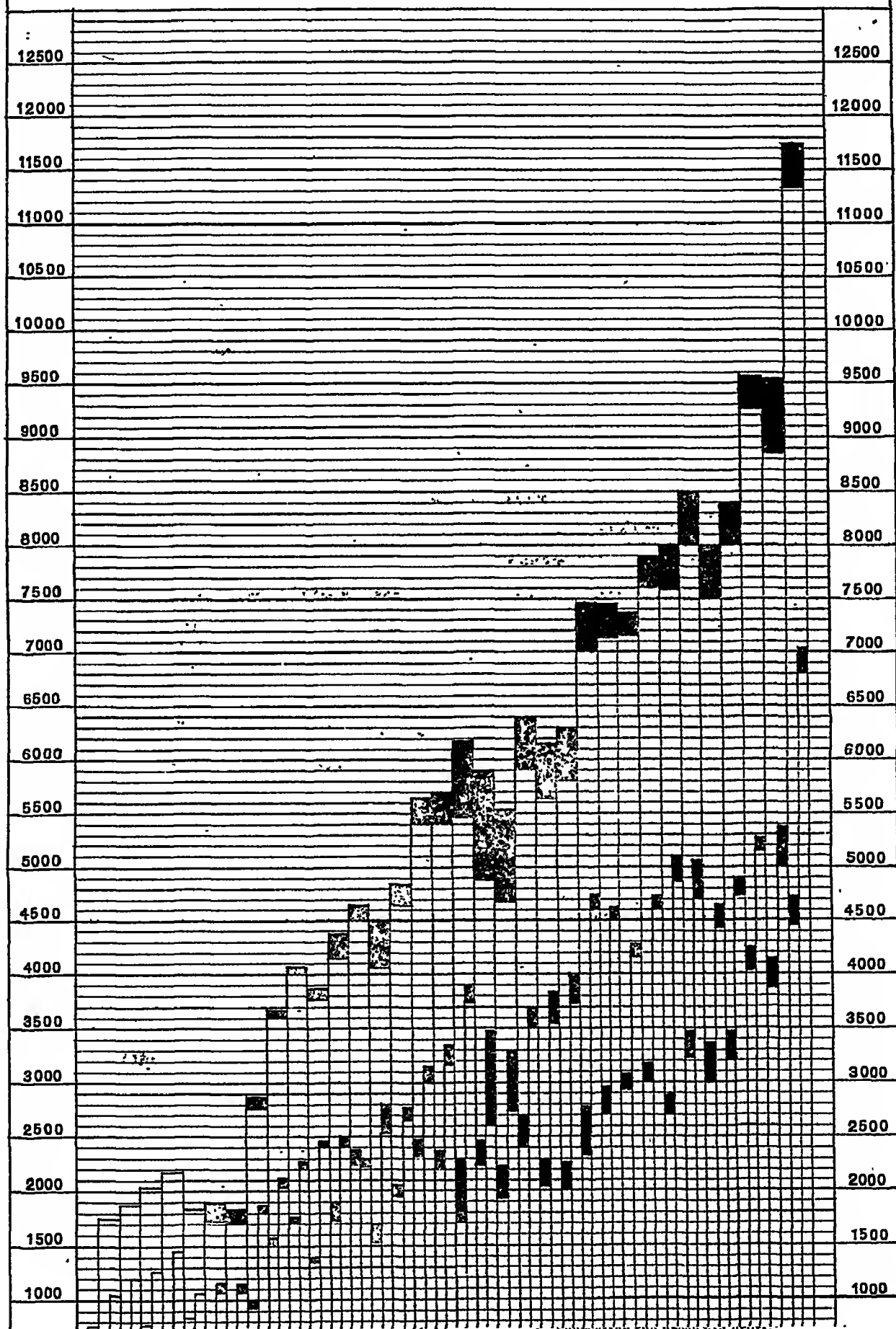


DIAGRAM **SHOWING TOTAL AREA IRRIGATED** **BY** **PUNJAB CANALS—MAJOR WORKS.**



The areas include the Swat River Canal up to 1930-01, after which date the canal was transferred to the North-West Frontier Province.

PUNJAB CANALS, MAJOR OR PRODUCTIVE WORK.

YEAR.	AREA IRRIGATED, IN ACRES (FINAL FIGURES).			REMARKS.
	Kharif.	Rabi.	Total.	
1897-1898	645,846	770,029	1,422,775	Lower Chenab Canal opened.
1898-1899	711,612	1,041,725	1,753,337	
1899-1900	672,219	1,215,382	1,887,601	
1900-1901	765,417	1,277,272	2,042,689	
1891-1892	706,030	1,481,418	2,167,487	Sirsa Branch of Western Jumna Canal opened.
1892-1893	823,235	1,021,647	1,847,882	Decrease due entirely to the favourable winter rains of 1892-93 which greatly contracted the irrigated rabi area.
1893-1894	711,001	1,102,633	1,803,634	Decrease as compared with 1891-92 due to general rainfall in rabi 1893-94, and would have been greater but for new irrigation on Chenab Canal.
1894-1895	703,930	1,151,028	1,855,858	Decrease due to very favourable rainfall during rabi, particularly in Sirhind and Western Jumna Canal tracts.
1895-1896	991,593	1,866,504	2,858,157	Increase chiefly due to partial failure of rains of 1895 and subsequent drought.
1896-1897	1,517,183	2,114,334	3,631,517	Increase due to drought.
1897-1898	1,780,174	2,276,724	4,055,898	Increase due to favourable year for irrigation and extensions.
1898-1899	1,413,822	2,458,670	3,872,501	Decrease in kharif due to favourable state of rivers and scanty rainfall.
1899-1900	1,888,308	2,406,674	4,394,982	
1900-1901	2,354,174	2,288,678	4,642,852	
1901-1902	1,686,043	2,805,795	4,491,838	Lower Jhelum Canal opened.
1902-1903	2,071,863	2,702,911	4,864,274	The Upper Sutlej Inundation Canals were transferred from head "Minor Works" to "Major Works" from 1st April 1902.
1903-1904	2,450,739	3,160,048	5,610,787	The Indus Inundation Canals were transferred from head "Minor Works" to "Major Works" from 1st April 1903.
1904-1905	2,381,786	3,307,316	5,689,132	
1905-1906	2,294,400	3,838,911	6,133,371	Decrease in kharif due to cotton failure.
1906-1907	2,136,219	3,467,776	5,602,995	
1907-1908	2,220,291	3,280,036	5,500,326	Decrease due to abnormally low supplies in the rivers.
1908-1909	2,695,518	3,680,532	6,376,050	
1909-1910	2,285,870	3,881,184	6,167,054	
1910-1911	2,254,333	4,010,124	6,264,457	
1911-1912	2,755,324	4,714,821	7,470,145	
1912-1913	2,929,309	4,531,942	7,461,251	Upper Chenab Canal opened.
1913-1914	3,009,950	4,281,771	7,351,721	Lower Bari Doab Canal opened.
1914-1915	3,181,751	4,008,877	7,880,628	
1915-1916	2,886,578	5,095,054	7,981,632	Upper Jhelum Canal opened.
1916-1917	3,441,407	5,052,400	8,493,867	Decrease in kharif due to drought and abnormally low supplies in the rivers.
1917-1918	3,333,822	4,652,666	7,986,488	Decrease in rabi due to unusually low supplies in rivers and failure of winter rains.
1918-1919	3,465,286	1,882,860	5,348,146	Decrease due to excessive rains in kharif and to some of the land flooded by rain in October not drying up early enough to permit of rabi irrigation.
1919-1920	4,215,912	5,292,488	9,508,430	
1920-1921	4,129,503	5,376,130	9,505,633	
1921-1922	4,277,719	6,124,105	10,401,824	

The areas include the Swat River Canal up to 1900-1901, after which date the canal was transferred to the North-West Frontier Province.

From 1894-1895 to 1905-1906 the total areas shown are *net*; thereafter the areas are *gross*.

PUNJAB CANALS, MINOR WORKS.

(Classed as Unproductive and Non-Capital from and after 1921-22.)

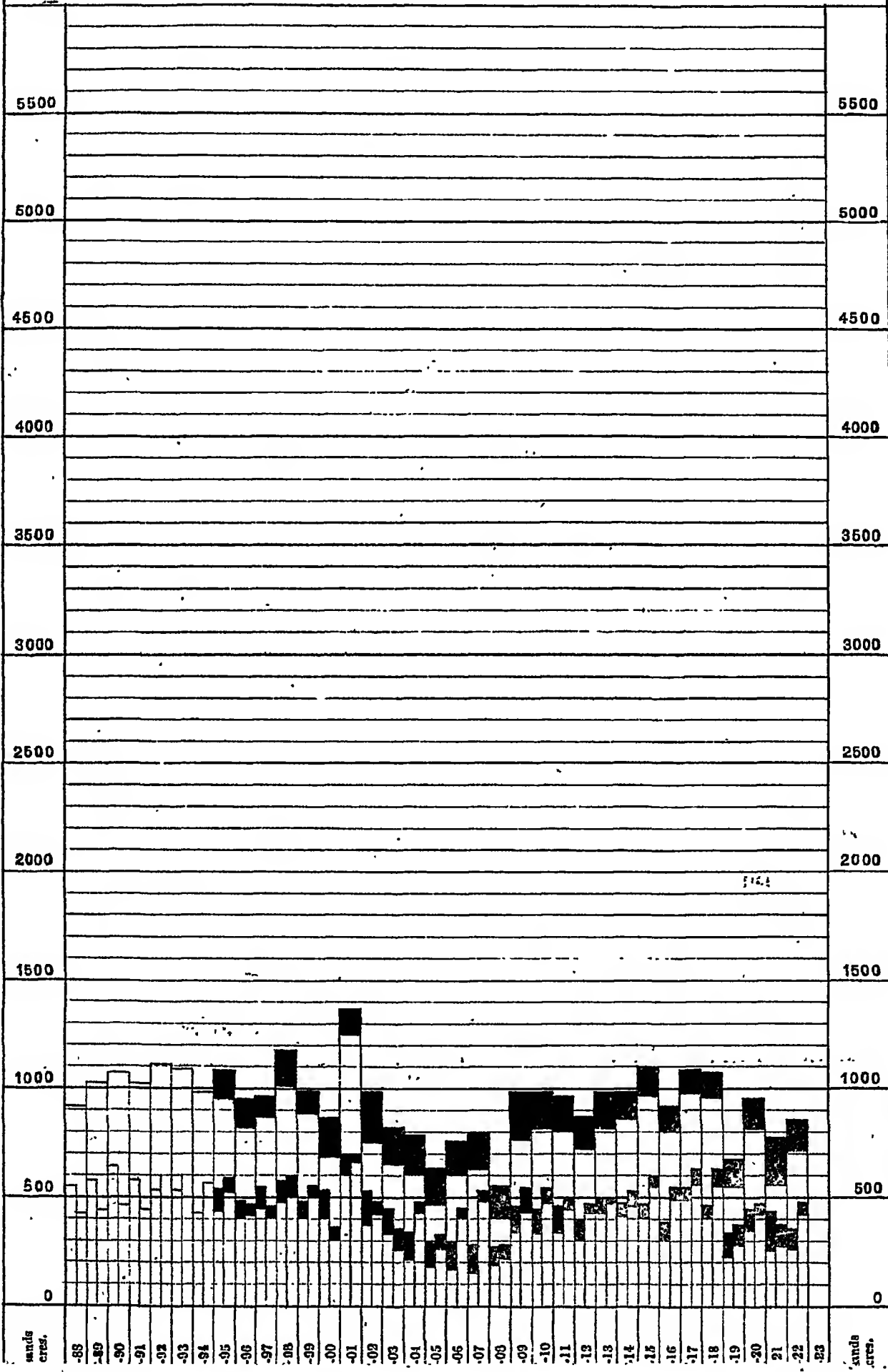
YEAR.	AREA IRRIGATED, IN ACRES (FINAL FIGURES).			REMARKS.
	Kharif.	Rabi.	Total.	
1887-1888	510,016	418,891	928,847	
1888-1889	574,102	426,025	1,001,027	
1889-1890	606,625	455,381	1,062,006	
1890-1891	569,935	452,617	1,016,552	
1891-1892	510,570	508,716	1,104,295	
1892-1893	504,936	589,477	1,094,413	Rivers rose late, but subsequent supplies were good and rainfall was favourable, the result being the largest area on record up to date.
1893-1894	424,240	550,378	974,618	Decrease due to the destruction of kharif crops by high floods and to less favourable working of the canals.
1894-1895	500,825	565,967	1,076,192	
1895-1896	477,937	461,243	939,200	
1896-1897	538,745	426,865	960,110	
1897-1898	565,582	592,778	1,158,360	
1898-1899	453,402	530,882	984,284	
1899-1900	520,924	389,037	850,981	
1900-1901	669,563	688,186	1,357,699	
1901-1902	568,416	573,165	981,521	
1902-1903	424,819	390,571	815,690	Decrease due chiefly to the transfer of the Upper Satlej Inundation Canals from head "Minor Works" to "Major Works" from 1st April 1902.
1903-1904	316,418	463,129	779,547	Decrease due chiefly to the transfer of the Indus Inundation Canals from head "Minor Works" to "Major Works" from 1st April 1903.
1904-1905	296,636	329,616	617,252	
1905-1906	298,279	452,788	751,067	
1906-1907	295,898	507,419	803,817	
1907-1908	258,074	266,484	524,558	
1908-1909	442,088	526,008	968,096	
1909-1910	426,020	548,687	960,607	
1910-1911	450,270	497,015	956,285	
1911-1912	402,641	459,606	862,247	
1912-1913	467,957	500,173	968,180	
1913-1914	464,872	506,871	971,743	
1914-1915	466,167	613,806	1,079,413	
1915-1916	362,607	539,672	902,279	Decrease due to drought and abnormally low supplies in the rivers.
1916-1917	452,348	638,609	1,085,957	
1917-1918	468,729	618,784	1,077,513	Decrease due to excessive rainfall.
1918-1919	313,334	354,504	667,838	Decrease due to low river supplies and adverse climatic conditions.
1919-1920	455,083	493,145	948,222	
1920-1921	407,910	360,147	768,057	
1921-1922	368,128	475,831	843,959	

The above includes the areas irrigated by the Shahpur Provincial Canals from 1890-1891 inclusive.

The above includes the areas irrigated on Ghaggar Canals, British and Bikaner State.

From the year 1894-1895 to 1905-1906 the areas shown are *net*; thereafter the areas are *gross*.

DIAGRAM
SHOWING TOTAL AREA IRRIGATED
BY
PUNJAB CANALS—MINOR WORKS.



V

PUNJAB CANALS, MAJOR OR PRODUCTIVE WORKS.
(Final figures).

YEAR.	Capital outlay, Direct and Indirect to end of year.	Interest charges to end of year.	Net revenue to end of year.	Accumu- lated profits to end of year (column 4— column 3).	FOR THE YEAR.			
					Gross revenue.	Working expenses.	Net revenue.	Percentage on capital.
					6	7	8	9
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1887-1888	5,70,25,823	3,18,46,761	5,09,35,631	1,90,84,567	40,06,923	17,01,248	23,04,975	3.99
1888-1889	5,89,49,409	3,40,74,478	5,33,27,038	1,02,53,146	43,64,901	19,72,987	23,92,007	4.06
1889-1890	6,00,35,478	3,63,49,609	5,01,53,320	1,95,30,512	49,66,797	21,14,115	28,52,682	4.74
1890-1891	6,24,71,861	3,86,93,767	5,98,37,074	2,11,43,307	53,30,440	21,73,686	31,56,754	5.85
1891-1892	6,70,91,023	4,11,74,523	6,36,26,126	2,24,51,603	60,40,900	22,51,038	37,89,052	5.65
1892-1893	6,97,92,824	4,37,68,997	6,78,87,041	2,42,81,617	68,09,149	24,51,631	43,57,518	6.24
1893-1894	7,31,89,876	4,63,48,772	7,08,80,491	4,43,40,719	53,50,907	24,45,060	29,05,847	3.95
1894-1895	7,04,93,578	4,04,29,432	7,42,04,493	2,47,75,061	59,65,651	26,50,549	33,15,002	4.38
1895-1896	8,02,57,067	5,24,41,565	7,87,76,591	2,63,35,026	70,89,254	28,40,474	42,48,780	5.81
1896-1897	8,41,03,265	5,56,01,216	8,06,34,038	3,10,32,817	1,09,44,448	30,87,005	78,57,443	9.34
1897-1898	8,70,19,863	5,82,02,165	8,56,88,226	3,57,44,093	1,21,85,419	31,86,227	90,02,192	10.85
1898-1899	9,32,16,691	6,22,62,611	10,41,91,814	4,22,09,178	1,24,07,593	35,51,505	88,55,588	9.93
1899-1900	9,09,47,210	6,57,49,487	11,37,77,701	4,80,28,274	1,34,14,661	41,28,714	92,85,944	10.21
1900-1901	9,20,75,977	6,92,70,350	12,40,93,246	5,48,21,887	1,46,16,146	43,01,651	1,03,14,485	11.20
1901-1902	8,04,41,638	6,09,30,552	13,15,08,910	6,15,78,364	1,46,85,198	43,26,919	1,03,08,279	11.52
1902-1903	10,34,31,083	7,53,86,849	14,45,20,777	6,91,89,923	1,66,14,594	49,22,673	1,17,91,921	11.39
1903-1904	10,69,07,917	8,13,86,874	15,82,78,899	7,79,42,525	1,85,73,691	57,18,671	1,28,55,020	12.02
1904-1905	10,57,88,346	8,44,56,007	17,16,51,245	8,71,64,838	1,99,10,593	62,38,247	1,36,72,346	12.29
1905-1906	11,01,51,719	8,86,86,692	18,37,47,793	9,51,11,105	1,89,36,568	65,00,269	1,24,36,302	10.66
1906-1907	11,11,16,550	9,28,01,047	19,79,51,311	10,56,47,764	2,21,75,797	69,78,097	1,51,97,700	13.68
1907-1908	11,23,83,171	9,59,51,870	21,10,52,103	11,50,70,238	2,02,79,699	71,79,407	1,31,00,292	11.64
1908-1909	11,38,02,325	9,96,57,325	22,43,80,401	12,52,23,076	2,11,00,012	72,71,714	1,38,28,298	12.26
1909-1910	11,33,18,773	10,33,19,741	23,93,61,184	13,60,41,393	2,23,99,978	79,19,245	1,44,80,733	12.73
1910-1911	11,43,31,721	10,70,28,097	25,49,75,785	14,79,47,692	2,34,16,942	78,02,291	1,56,14,651	13.66
1911-1912	11,62,22,814	11,08,11,169	27,37,29,768	16,29,18,599	2,71,10,441	83,56,458	1,87,53,988	16.18
1912-1913	14,02,99,761	11,86,74,357	29,78,41,169	17,91,56,812	3,27,93,330	86,81,929	2,41,11,401	16.48
1913-1914	16,77,87,610	12,58,50,785	32,37,69,070	19,84,18,835	3,47,39,517	88,11,016	2,59,28,501	15.45
1914-1915	17,17,13,716	13,11,06,081	34,90,07,563	21,79,01,582	3,45,62,445	93,24,449	2,52,37,996	14.70
1915-1916	21,69,51,491	14,40,61,281	37,26,65,951	22,86,01,673	3,43,89,804	1,09,31,516	2,34,58,288	10.90
1916-1917	22,06,10,193	15,10,65,128	40,13,27,393	25,02,32,287	3,96,31,012	1,09,70,471	2,86,61,441	12.99
1917-1918	22,39,05,164	15,86,49,520	42,80,26,869	26,91,77,280	3,78,08,266	1,11,06,851	2,66,99,414	11.95
1918-1919	22,45,11,551	16,61,18,295	45,83,27,320	29,22,09,025	4,13,14,912	1,10,14,431	3,03,00,511	13.50
1919-1920	22,44,57,003	17,86,37,790	48,07,81,771	31,70,93,981	4,47,63,668	1,23,50,237	3,24,04,451	14.43
1920-1921	22,52,22,310	18,09,69,235	52,34,11,470	34,24,42,215	4,68,41,809	1,41,65,110	3,26,76,699	14.95
1921-1922	22,72,19,789	18,81,19,609	55,08,62,051	36,82,41,542	5,04,72,891	1,72,22,810	3,32,50,081	14.68

* Excludes the figures relating to the Swat River Canal, which now belongs to the North-West Frontier Province. The figures up to 1900-1901 include the figures of that canal.
The gross revenue in column 6 is that actually collected during the year and differs from the revenue as assessed on the area irrigated in the year.

REVIEW
OF THE WORK OF THE
IRRIGATION DEPARTMENT
PUNJAB
FOR THE YEAR
1921-22.



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1922.

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**Review of the work of the Irrigation Department,
Punjab, during the year 1921-22.**

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**GOVERNMENT OF THE PUNJAB.
PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.**

No. 91-R. I.

Dated Lahore, the 16th January 1923.

Resolution of the Governor in Council of the Punjab and its Dependencies.

Read—

Review by the Chief Engineer of the work of Irrigation Department, Punjab, during the financial year 1921-22.

CAPITAL OUTLAY.

1. The Capital invested to date (Direct and Indirect) on Productive Irrigation Works, amounted to Rs. 24,29,68,308 including Rs. 1,57,79,305 contributed by Native States, while that on the Unproductive works for which Capital and Revenue Accounts are kept was Rs. 9,02,994, inclusive of a contribution of Rs. 2,90,401 from the Bikaner State for construction of the Ghaggar Canals.

2. During the year the Capital expenditure incurred on Productive Irrigation Works amounted to Rs. 25,62,864. Of this amount 6.43 lakhs were spent on the old canals and 13.84 lakhs on the Colony canals, while 4.12 lakhs were expended on the construction of the Sutlej Valley Project and 1.24 lakhs on works carried out in the Central Workshops Division.

Of the expenditure on the Colony canals about 8 lakhs were spent on improvements to the Lower Chenab Canal headworks at Khánki and on the remodelling works that are being carried out on the Lower Jhelum Canal.

The expenditure on the Triple Canal system amounted to Rs. 5.84 lakhs incurred on works which are detailed in paragraph 11 of the Chief Engineer's review.

NATURE OF SEASONS, ETC.

3. *Kharif 1921.*—The failure of the previous monsoon of 1920 and the winter rains of 1920-21, followed by a practically rainless period from April to July, brought matters to a serious state. Rivers were unusually low and supplies in canals, below requirements. The fodder scarcity which had arisen owing to the long continued drought became very acute, and canal water was used to the last drop to avert the threatened famine. The shortage of supplies at sowing time and the necessity for growing fodder lead to a serious contraction in the area under cotton and other important crops. The monsoon ultimately broke on the 11th of July and may be said to have been normal for the remaining portion of the season. Although there was then an improvement as regards the fodder scarcity, it was too late for any large increase to be made in the area put down under Kharif crops.

Rabi 1921-22.—The climatic conditions may be said to have been very satisfactory during the Rabi season.

The well distributed rainfall in the second half of the the monsoon and during the third week of October was most favourable for Rabi sowings.

Large areas had remained unsown from the Kharif, and full advantage was taken of the favourable conditions to put down a bumper Rabi crop.

There was no rain during November and December, but river supplies were well maintained, with the result that the area irrigated was considerably greater than in the previous year.

The rain which fell in February and March was well distributed and helped considerably towards maturing the large Rabi area.

... AREA IRRIGATED, ETC.

4. The area irrigated by works of all kinds was approximately 11½ million acres out of the total cropped area of 31·02 million acres in the whole Province, i.e., 36 per cent.

Of the total area irrigated the Productive Irrigation Works accounted for 10,401,814 acres or 896,181 acres more than in the previous year. The irrigation effected by the Unproductive and Non-Capital works, all of which are inundation canals, was 843,959 acres as against 768,174 acres in 1920-21.

As compared with the triennial period ending 1920-21 the Productive Irrigation Works showed an increase of 1,281,078 acres, while the Unproductive and Non-Capital works exhibited an increase of 49,251 acres.

On the Triple Canal system the area irrigated amounted to 2,007,466 acres showing an increase of 208,292 acres, on the figures of the previous year of 142,831 acres on the figures estimated in the revised estimate and of 59,466 acres on the forecast of the Completion Report issued in 1919. The expansion of irrigation on these canals is continuous and satisfactory.

FINANCIAL RESULTS, ETC.

5. The gross receipts from the working of the Productive Irrigation works amounted to Rs. 5,15,91,402 and the working expenses to Rs. 1,69,37,519, giving a net revenue of Rs. 3,46,56,883 or 15·25 per cent. on the total Capital outlay of Rs. 22,70,11,796 as against 14·51 per cent. in 1920-21 and 14·43 per cent. in 1919-20. This favourable result was due to a larger area irrigated by the perennial canals during Kharif 1921, and Rabi 1920-21, the assessment on which was realised during the year under review, and had it not been for a decrease in the area irrigated on the inundation canals owing to unfavourable climatic conditions and low river supplies, the result would have been still more favourable.

6. The percentage of net revenue on Capital outlay on the various larger canals were :—

Western Jumna Canal	...	...	...	7·34
Sirhind Canal	...	...	...	14·97
Upper Bari Doab Canal	...	...	...	21·06
Lower Bari Doab Canal	...	...	...	10·70
Upper Chenab Canal	...	...	...	14·05
Lower Chenab Canal	...	...	...	42·05
Upper Jhelum Canal	...	...	...	1·03
Lower Jhelum Canal	...	...	...	16·88
Upper Sutlej Inundation Canals	...	...	...	5·29
Sidhnai Canals	...	...	...	5·24
Indus Inundation Canals	...	...	...	—4·7

The net profit after defraying interest charges was 11·97 per cent. of the total outlay as against 11·25 per cent. in the preceding year. These figures take into account Indirect as well as Direct Receipts. Based on Direct Receipts only the net profit after defraying interest charges amounted to 3·6 per cent. of the Capital outlay against 5·26 per cent. in the year 1920-21. This reduction is largely attributable to increase in the cost of establishment and maintenance without any corresponding increase in occupiers' rates.

7. The Triple Canal system continues to make good progress. During the year under review the Upper Chenab Canal earned a net revenue of Rs. 50,03,718, the Lower Bari Doab of Rs. 24,27,008 and the Upper Jhelum Canal of Rs. 4,59,146 giving, for the whole system, a total of Rs. 78,91,872, or a return of 7·67 per cent. on the total outlay of Rs. 10,28,51,149. These figures are less by Rs. 5,27,378 than those anticipated in the Completion Report, but greater by Rs. 14,77,068 than those of the Revised Estimate.

These canals have yet to clear off their accumulated interest debt, amounting to Rs. 129 lakhs.

8. The operations of the Unproductive and Non-Capital works resulted in a net revenue of Rs. 2,38,513 as against Rs. 2,59,842 in the preceding year.

GENERAL.

9. Owing to the introduction of Reforms the Public Works Department heads of accounts were re-classified under orders from the Government of India and this report is based on the new classification introduced.

10. Only seven miles were added to the length of channels in operation, thereby raising the total from 19,722 miles at end of March 1921 to 19,729 miles at end of March 1922.

11. Sanction of the Secretary of State for India was received during the year to the Sutlej Valley Project. A third Chief Engineer (Mr. E. R. Foy) was appointed and entrusted with the construction work of this Project. At the close of the year 4 Circles of Superintendence with 13 Divisions and 20 Sub-Divisions were constituted, and preliminaries have been, and are being settled to push on construction work vigorously. In addition to local purchases urgent orders have been and are being placed with the High Commissioner in England for European stores, machinery and plant which are needed for use on this Project.

12. The estimated average value of the crops raised on all canals during the year works out to Rs. 67,20,61,032, giving an average rate of Rs. 63 per acre assessed. The total value, according to this estimate, amounts to a little over 29 times the total Capital outlay on all the canal systems up to date.

13. The posts of the Chief Engineer have been held during the year by—

			<i>From</i>	<i>To</i>
(1)	{	Mr. H. W. M. Ives ...	1-4-21	19-11-21.
		Mr. A. R. Murray ...	20-11-21	31-3-22.
(2)	{	Mr. F. T. Bates ...	1-4-21	5-12-21.
		Mr. W. P. Sangster ...	6-12-21	31-3-22.
(3)		Mr. E. R. Foy ...	12-11-21	31-3-22.

By the retirement of Messrs. Ives and Bates the Government has lost the services of two able officers whose efficiency and experience had been of great service to the Province.

By order of the Governor in Council,

W. P. SANGSTER,

Secretary to Government, Punjab.

Review of the work of the Irrigation Department, Punjab, during the year 1921-22.

THE issue of this Review has been much delayed owing to the introduction of the revised classification of Public Works Department heads under Government of India, Public Works Department Circular No. 3 P. W., dated the 21st September 1921. The new classification came into operation with effect from the accounts for March 1922, Final. The figures were late in compilation, and the accounts were received from the Accountant-General, Punjab, only in the middle of November 1922.

2. Owing to the classification of accounts in the Public Works Department necessitated by the introduction of Reforms, Irrigation Works are now divided into two main categories :—*Quasi-commercial* and *non-commercial* works. *Quasi-commercial* works are those for which capital accounts are kept and *non-commercial* works are those for which such accounts are not kept. *Quasi-commercial* works are again divided into (a) Irrigation and (b) Navigation, Embankment, and Drainage Works. Each of these is again subdivided into (1) Productive and (2) Unproductive. There are no works under (b) in the Punjab Irrigation Department.

3. Productive Works are works of a remunerative character undertaken either for the purposes of navigation or in the interests of general agricultural development of the country and both their first cost and any subsequent expenditure on extensions and improvements are met from borrowed capital. The charges for interest and for maintenance and repairs are provided for out of current revenues to which is credited the income derived from these works. Such works are expected, within 10 years after the probable date of completion, to yield sufficient revenue to pay their working expenses and the annual interest calculated at :—

- (a) 4 per cent. on the capital invested in the case of works sanctioned before the 1st April 1919,
- (b) 5 per cent. in the case of those sanctioned between 1st April 1919 and the 1st August 1921, and
- (c) 6½ per cent. in the case of those sanctioned after the last mentioned date.

4. In the Punjab the following canals are classed as Productive Works :—

- | | |
|------------------------------------|------------------------------------|
| 1. The Western Jumna, | 6. The Lower Chenab, |
| 2. The Sirhind, | 7. The Upper Jhelum, |
| 3. The Upper Bari Doab, | 8. The Lower Jhelum, |
| 4. The Lower Bari Doab, | 9. The Sidhnai, |
| 5. The Upper Chenab, | 10. The Upper Sutlej (Inundation), |
| 11. The Indus (Inundation) Canals. | |

Of these the first eight are perennial and the last two Inundation Canals, the Sidhnai Canal occupying an intermediate position, being a *Kharif* Canal with a fully controlled supply.

5. Perennial canals irrigate during both the *Kharif* and *Rabi* Agricultural seasons, having an assured supply of water all the year round, while the Inundation Canals take off from the bank of a river with its bed at a level which is generally considerably higher than the ordinary low water surface level of the river.

Supply to these Inundation Canals is variable and is assured only during the *Kharif* season, though it is generally possible to give from them, during the latter part of the *Kharif* season, a preliminary watering for *Rabi* crops, which have to be matured without further aid from canal water.

6. Unproductive Works are those which either produce little or no revenue, or of which, owing to their restricted size, it would serve no useful purpose to examine the returns paid by each individual work. These are (1) the Shahpur Imperial (Inundation) Canals and (2) the Ghaggar Canals.

7. Besides the above there are non-commercial works for which capital accounts are not kept, but for which the expenditure is financed from current revenue. They are divided into:—

A. Irrigation Works,

B. Navigation, Embankment, and Drainage Works,
each being again sub-divided into—

(1) Works for which only revenue accounts are kept,

(2) Works for which neither capital nor revenue accounts are kept,
and

(3) Miscellaneous.

Under A (1): works for which only revenue accounts are kept, are—(1) the Lower Sutlej Inundation Canals, including the Hajiwalli Canal, (2) the Chenab Inundation Canals, (3) the Muzaffargarh Inundation Canals, and (4) the Shahpur Provincial Inundation Canals.

These works have been retained under this head for the present till it can be shown that they belong either to the *Quasi-commercial* class or should be treated as works for which neither capital nor revenue accounts are kept, and to this end necessary steps are being taken.

Expenditure on surveys and other preliminary investigations in connection with irrigation and drainage projects for Productive Public Works, is hooked under head A (3) Miscellaneous expenditure, and this is at present being incurred on:—

(1) Kahan Torrent Surveys.

(2) Thal or Sind Sagar Surveys.

(3) Sutlej Valley Surveys.

There are no works in the Province under A (2). Under B (2), works for which neither capital nor revenue accounts are kept, are (1) Namal Dam and Canal, (2) Gurgaon Bunds, (3) Kitchen, Irving and Mehdi Khan Canals, and (4) Muzaffargarh Embankments, the last named being the only works under the control of the Irrigation Department, while the other three are under the management of the Revenue authorities. There are no works under B (1) and (3).

NATURE OF THE SEASONS.

8. *Kharif* 1921.—Owing to the bad monsoon and the total absence of winter rains during 1920-21, there was little moisture in the soil for *Kharif* sowings. The period from April to July was practically rainless and abnormally hot.

The monsoon did not set in until the 11th July 1921, about two weeks after the normal date, and it extended to the south and west by the 14th of that month, giving general and sufficient rain in nearly all tracts in the Province. It was very active during the first 12 days of August but in the second week a break set in, which, with occasional interruptions, continued till the end of the month. During September the rainfall was above the normal in the east Punjab and below normal elsewhere. The total rainfall from June to September according to the records of the Meteorological Department was normal.

River supplies were very low during the earlier *Kharif* and the demand for canal water was exceptionally keen. The supply then available, though short of requirements, was used to the last drop in the sowing of fodder and other cheap crops in order to provide means for protection against fodder famine. This resulted in a decrease under the staple and more important crops.

Rabi 1921-22.—The rainfall in the second half of the *Kharif* season helped the early sowings of the *Rabi* season. Rainfall in most districts in the third week of October was also very useful and encouraged large sowings of *Rabi* crops, but the rest of that month and the whole of November was rainless. Showers were again received in December but there was practically no rain during January. The rain which fell in February and March, was well distributed and very useful for standing spring crops.

Thus the climatic conditions were very favourable for *Rabi* and the result was that the area irrigated during the season was greater by about 10 lakhs than that of the previous year.

The usual *Rabi* rotational programme of the five linked canals, was put into force from 1st October but under a new arrangement. The fixed share allotted to the two older canals, the Lower Chenab and Lower Jhelum, was abandoned and the available supply in the two rivers, Jhelum and Chenab, distributed among the five canals according to the areas actually irrigated on the two older canals and the Project areas on the triple canal systems. The effect of this was that while the Upper Jhelum and Upper Chenab Canals got about the same supply as before, the Lower Bari Doab Canal gains about 6 per cent. and the Lower Chenab and Lower Jhelum Canals lose 4 and 2 per cent., respectively. The Lower Bari Doab Canal is a new Canal with an extensive colony undeveloped whereas the Lower Chenab and Lower Jhelum are old and developed canals. The rotational programme worked satisfactorily during the year. The actual river supplies were in excess of the minima assumed in the programme.

The year under review was free from any widespread calamities.

CAPITAL OUTLAY.

(1) *Productive Works.*

9. The net expenditure (direct and indirect) debitable to the Capital Account of these Canals during the year under review, amounted to Rs. 22,45,453 (Imperial Rs. 19,66,688 and Contribution Rs. 2,78,765) after deducting a sum of Rs. 3,17,411 which was realised mainly :—

- (a) from sale of surplus stores and tools and plant rendered available by the completion of works on the Triple Canals;
- (b) from colonists on account of cost of water-courses which Government had built for them in advance in order to secure rapid development of irrigation on the Triple Canal system;
- (c) from suspense transactions (stock actually paid for but hitherto not used);
- (d) certain other adjustments.

10. The corresponding expenditure in 1920-21 was Rs. 8,04,624. In the year 1919-20 it was a minus quantity being—Rs. 52,957 (the result of various credit and debit transactions), while in the year 1918-19 it was Rs. 12,07,563.

11. Of the total expenditure of Rs. 25,62,864 about 6.43 lakhs were spent on the older canals, the Western Jumna, the Sirhind, the Upper Bari Doab, the Upper Sutlej, and the Indus Canals, 13.84 lakhs on the newer canals (the five Colony Canals), while 4.12 lakhs were expended on the construction of the Sutlej Valley Project, and 1.21 lakh on works carried out in the Central Workshops Division. On the older canals the works carried out consisted of —

- (1) Construction of the new weir at Tajawala.
- (2) Sub-Divisional Officer's residential quarters at Binjhol.
- (3) Staff quarters and office buildings on the Sirhind Canal.
- (4) Distributary No. 3 of the Sutlej Navigation channel on the Sirhind Canal.

The most important works carried out on the Lower Chenab Canal were improvements to the headworks at Khanki, while those on the Lower Jhelum Canal were the remodelling works of main line, its branches, and distributaries. About Rs. 8 lakhs were spent on these two canals.

On the Triple Canals the expenditure incurred was—

Upper Chenab Canal.—The staff quarters, office buildings and a combined rest-house for Buildings and Roads and Irrigation Branches at Sheikhpura, the headquarters of the new Civil District, Sheikhpura; 17 new minors, together with their water-courses and culverts, on the Raya Branch, in order to facilitate distribution of canal water on that branch and its distributaries; remodelling and realigning the head reach of Gujranwala distributary.

Upper Jhelum Canal.—Excavation of minors, demarcating drainages and manufacture of bricks in the Phalia Division; construction of 3 Subordinates' quarters, water-courses, and boundary road culverts in the Gujrat Division; sinking a well in Assistant Engineer's compound at Aurangabad; construction of outlets on Mianwal and Phalia distributaries; compounders and sweepers' quarters at Wasu and Busal and one village road bridge on Aki minor.

Lower Bari Doab Canal.—Erecting a fish ladder for Balloki weir; construction of residential quarters for subordinates and for a Sub-Divisional Officer, 4 Patwarkhanas, a dispensary at Okanwala, a Post Office at Dhaya; distributary 2-R. A. and its minors; minors of distributaries 8-R, 10-R, and the masonry works in connection therewith; remodelling and realigning Dad Fatehaua major distributary and many boundary culverts and Kennedy's gauge outlets.

12. The total outlay to date (direct and indirect) on canals classed as Productive, amounted to Rs. 24,29,68,303 including Rs. 1,57,79,305 contributed by Native States.

(2) *Non-Productive.*

13. There are only two canals, the Shahpur Imperial Inundation Canals and the Ghaggar Canals, for which capital and revenue accounts are kept. The only expenditure incurred was a sum of Rs. 5,673 expended on the Ghaggar Canal, chiefly on the construction of subsidiary buildings connected with the Moju Khara and Jagmalara inspection houses, thereby bringing the outlay to date on these canals to Rs. 6,12,593.

AREA IRRIGATED, ETC.

14. The statement attached to this review shows separately for the principal crops the area irrigated during the year. The total area irrigated on works of all kinds compares as below with the corresponding figures of the two previous triennia and for the year 1920-21 :—

PARTICULARS.	AVERAGE OF THE THREE YEARS ENDING		DURING THE YEAR	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>I—Irrigation Capital Works.</i>				
(1) Productive ...	7,032,536	8,480,798	8,803,406	9,622,304
(2) Unproductive ...	62,774	16,149	49,191	51,360
<i>II—Non-Capital Works.</i> ...	951,185	746,062	716,271	787,416
Total ...	8,046,495	9,273,009	9,568,868	10,461,079
<i>Native States.</i>				
(1) Productive ...	570,827	639,938	702,227	779,510
(2) Unproductive ...	7,960	2,497	2,712	5,184
Total ...	578,787	642,435	704,939	784,694
GRAND TOTAL ..	9,225,282	9,915,444	10,273,807	11,245,773

The total area irrigated on all canals showed an increase of 971,966 acres as compared with the previous year, and of 1,330,329 acres and 2,020,491 acres as compared with the average of the two triennial periods ending 1917-18 and 1920-21, respectively. Out of the above-mentioned 971,966 acres the Productive Works showed an increase of 896,191 acres including 77,233 acres contributed by the Native States Branches. The increase under Unproductive Works was 4,641 acres including 2,472 acres done by the Bikaner State on the Ghaggar Canals while the non-capital works showed an increase of 71,144 acres.

15. The areas of the principal crops irrigated during the *kharif* season are compared below with those of the corresponding period of the year 1920-21—

Crops.	1921.			1920.			INCREASE OR DECREASE UNDER.		
	Productive Works.	Unproductive Works.	Non-Capital Works.	Productive Works.	Unproductive Works.	Non-Capital Works.	Productive Works.	Unproductive Works.	Non-Capital Works.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Sugarcane ...	207,235	20	7,647	239,300	24	8,110	-32,035	-4	-463
Rice ...	400,658	7,593	34,080	473,141	7,571	65,927	-12,553	-476	-31,847
Cotton ...	889,145	1,319	36,493	1,443,715	5,977	83,447	-577,556	-4,653	-46,951
Indigo ...	7,637	...	24,894	4,497	...	21,939	+3,140	...	+2,955
Maize ...	328,293	75	1,800	305,093	63	1,339	+22,297	+13	+61
Jowar, Bajra and Chari.	1,617,103	7,153	115,915	1,029,355	6,183	78,235	+597,243	+970	+37,670
Other crops ...	787,723	6,497	125,290	629,953	8,931	120,002	+157,770	-2,464	+5,294
Total ...	4,277,719	22,460	345,668	4,129,492	29,078	78,949	+148,227	-6,618	-33,281

The above table shows that during *kharif* the Productive Works showed a net increase of 148,227 acres while the Unproductive Canals exhibited a decrease of 6,618 acres and the Non-Capital Works were responsible for a decrease of 33,281 acres. The decrease under Unproductive and Non Capital works was chiefly due to absence of winter rains during the year 1920-21, and late rise in rivers.

Owing to scarcity of fodder caused by the poor monsoon and the entire absence of winter rains in the preceding year danger of a fodder famine was imminent and the condition of cattle was not satisfactory. The position grew worse in the first half of the *Kharif* season of the year under review which was again entirely rainless. Much of the area which would otherwise have been sown with important crops had to be put under fodder crops as a precaution against a fodder famine. Due to this cause the area under sugarcane showed a decrease of 13 per cent., that under rice of 8 per cent and that under cotton of 41 per cent. as compared with the preceding year. The area under fodder crops such as *Jowar*, *Bajra*, *Chari* and other crops was large, showing an increase of 42 per cent. over the figures of the preceding year.

The low price of cotton, noticed in the last year's review, also contributed much towards the decrease in the area under that crop. The Inundation Canals were late in starting but, after the monsoon broke, water in canals was sufficient and river floods high.

16. The areas under the principal rabi crops are compared below with those in 1920-21 :—

Crops.	1921-22.			1920-21.			INCREASE OR DECREASE UNDER.		
	Productive Works.	Unproductive Works.	Non-Capital Works.	Productive Works.	Unproductive Works.	Non-Capital Works.	Productive Works.	Unproductive Works.	Non-Capital Works.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Wheat ...	3,220,174	8,842	291,738	3,042,883	11,960	233,180	+177,294	-3,118	+53,558
Barley ...	379,317	651	11,587	334,890	227	8,812	+44,427	+424	+2,775
Mixed grain	264,764	1,320	100	179,192	2,288	...	+85,562	-968	+100
Other crops	2,259,950	18,087	143,506	1,818,528	8,350	97,330	+441,122	+9,737	+53,176
Total ...	6,124,195	28,900	440,931	5,375,700	22,825	337,322	+748,405	+6,075	+109,609

During *rabi* the area irrigated showed an increase of 864,089 acres, of which 748,405 acres was under Productive Works, 6,071 acres under Unproductive Works and 109,809 acres under the Non-Capital Works. Much the most important *Rabi* crop in the Punjab is wheat. This crop constituted 27.6 per cent. (more than $\frac{1}{4}$ th) of the total *kharif* and *rabi* crops of the year under review and 49 per cent. (about half) of the *rabi* crops alone, irrigated on all canals in the Punjab. The increase under all crops in the *rabi* over that of the previous year is due to timely rainfall and favourable climatic conditions.

17. *Remissions.*—The area on which the irrigation charges were remitted amounted to 569,626 acres as compared with 553,861 acres in 1920-21. Deducting from these figures 144,816 acres and 31,48 acres remitted under tenancy rules, not for failure of crops but as part of the terms of colonization, mostly on the Lower Bari Doab Canal, the area of crops that actually failed, either wholly or partially, amounted to 424,810 acres or 3.8 per cent. of the area sown as compared with 513,914 acres or 8.6 per cent. in 1920-21. Out of 424,810 acres 58,119 acres were remitted for short supply, 32,930 for flooding by rain, 172,846 under head bad soil, 59,463 acres damaged by other insects and blight, and 71,527 acres under head miscellaneous, the last included, among others 9,927 acres due to late opening and early closing of Inundation Canals, 5,027 acres to late and excessive cultivation.

The remissions given this year, though somewhat larger than those in the year 1919-20 were far less than those given in the year 1920-21.

During the *kharif* season the remissions were larger, due mainly to the fact that the *rabi* of 1920-21 was practically rainless and that it followed a very dry summer, and river supplies were extremely low right up till about the middle of July. Although the *kharif* rainfall of 1921 was considerably more than that of 1920 it came too late to confer all the benefits that it might otherwise have done. The dry summer of 1920 and the practically rainless winter and spring of 1920-21 were favourable to the increase of insects and to the formation of an unusually large number of dust storms. These circumstances led to a serious deterioration of the cotton crop over the greater part of the Province and larger remissions had to be given.

During the *rabi* season the *kharaba* remissions were about normal.

FINANCIAL RESULTS, ETC.

18. The financial results of the year under review are based on the revenue assessed and collected on the areas irrigated in *rabi* 1920-21 and *kharif* 19-1.

Gross receipts.—The gross receipts from works of all kinds compare as follows with the figures for the year 1920-21 and the two triennial periods ending 1920-21 and 1917-18 :—

PARTICULARS.	AVERAGE OF THE THREE YEARS ENDING		DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
<i>Irrigation Capital Works.</i>	Rs.	Rs.	Rs.	Rs.
Productive Works ...	3,73,41,660	4,12,78,217	4,07,56,022	5,15,94,402
Unproductive Works ...	1,34,914	97,289	1,04,897	60,029
Non-Capital Works ...	18,75,628	15,80,429	14,82,613	13,28,768
Total ...	3,93,52,202	4,59,55,935	4,83,43,532	5,29,92,799
<i>Native States Branches.</i>				
Productive Works ...	26,24,972	26,74,830	20,12,887	33,68,524
Unproductive Works ...	6,958	4,311	8,060	...
Total ...	26,31,930	26,79,141	20,16,947	33,68,524

In the case of British channels the Productive Works showed improved results due to a larger area of *kharif* 1921 while in the case of Unproductive

and Non-Capital Works the figures were greatly affected by a decrease of 132,998 acres in the area irrigated during *rabi* 1920-21, the assessment on which was realized during the year under review. The same remark applies in the case of Native States.

The gross receipts work out to a rate of Rs. 6·0 per acre matured, but the figures include Rs. 1,90,12,213 in the case of Productive Works and Rs. 7,66,776 in the case of Unproductive and Non-Capital Works on account of indirect receipts for land revenue, water advantage rate due to the canal, *Malikana* and interest at 6·13 per cent. on *Nazrana* and sale-proceeds from Government waste land in the colonies.

Working expenses.—The working expenses for the year are compared below with the average figures of previous two triennia and of the year 1920-21 :—

PARTICULARS.	AVERAGE OF THE THREE YEARS ENDING		DURING	
	1917-18	1920-21.	1920-21.	1921-22.
<i>Irrigation Capital Works.</i>	Rs.	Rs.	Rs.	Rs.
Productive Works ...	1,10,10,925	1,25,30,727	1,41,65,110	1,69,37,519
Unproductive Works ...	87,256	1,18,294	1,57,585	1,17,963
Non-Capital Works ...	8,14,719	10,16,000	11,46,225	10,41,921
Total ...	1,19,12,900	1,36,74,021	1,54,62,920	1,80,97,403
<i>Native States.</i>				
Productive Works .	5,42,215	4,45,076	5,73,953	5,74,504
Unproductive Works ...	4,001	1,907	5,928	7,331
Total ...	5,46,216	4,50,883	5,79,881	5,81,835

The above figures under British channels work out to Rs. 1·7 per acre irrigated as against that of Rs. 1·6 in the preceding year. With the exception of the Western Jumna Canal the expenditure on all canals was larger than last year mainly because of a general increase in the cost of labour and materials and in the pay of Establishment, Gazetted and non-Gazetted, as well as to some special works which were carried out on some of the canals, in addition to the ordinary maintenance of and repairs to headworks, main line, branches, distributaries, buildings and plantations.

The expenditure under Unproductive and Non-Capital Works was about normal, as no special repairs were found necessary during the year on these canals.

Net Revenue.—The net revenue for the year compares below with that of the previous periods:—

PARTICULARS.	AVERAGE OF THE THREE YEARS ENDING		DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
<i>Irrigation Capital Works.</i>	Rs.	Rs.	Rs.	Rs.
Productive Works ...	2,63,39,715	3,17,0,387	3,26,79,699	3,46,50,883
Unproductive Works ...	47,658	— 21,015	— 52,683	— 48,334
Non-Capital Works ...	10,00,969	,04,369	3,42,388	2,86,847
Total ...	2,74,48,282	3,23,38,241	3,29,69,906	3,49,05,396
<i>Native States.</i>				
Productive Works ...	46,17,133	18,15,881	20,38,765	— 4,38,706
Unproductive Works ..	— 4,868	— 4,907	— 5,928	— 7,331
Total ...	16,12,265	18,10,974	20,32,837	— 4,46,037

The fluctuations under British channels have already been explained under gross receipts above.

The net revenue earned by Productive Works, including indirect receipts, but excluding interest charges, amounted to Rs. 3,46,56,883, or a return of 15·25 per cent. on the total outlay of Rs. 22,71,89,003 to date as against 11·51 per cent. in 1920-21; while direct receipts alone yielded 6·84 per cent. as against 8·52 per cent. in the preceding year, the decrease being due to decrease in direct receipts resulting from the reduced area of *rabi* irrigation in 1920-21.

The Upper Bari Doab, Sirhind, Upper Chenab and Upper Jhelum Canals showed improved results. Of the remaining perennial canals, the Western Jumna, Lower Chenab, Lower Jhelum, and Lower Bari Doab Canals earned 7·24, 42·05, 16·83 and 10·70 per cent., respectively, as compared with 11·27, 44·83, 19·16 and 15·68 in the preceding year. The Sidhnai Canal and the Upper Sutlej Inundation Canals also earned 5·2 and 5·29 per cent., respectively, as against 17·65 and 15·64 per cent. in the preceding year, while on the Indus Inundation Canals there was a loss of 4·7 per cent. The decrease in all cases is attributable to less irrigation during the *rabi* crop of 1920-21 and *kharif* 1921 and to larger working expenses during the financial year under review; as also to an increase under capital outlay.

The interest charges for the year amounted to Rs. 74,46,346, and the net profit after defraying interest charges was Rs. 2,72,10,537, or 11·97 per cent. of the capital outlay to date. In the previous year the corresponding figures were 2,68,48,234, or 11·25 per cent. If direct receipts alone are considered, the net profit, after defraying interest charges, comes to Rs. 81,98,324 only, or 3·6 per cent. of the capital outlay. In the previous year the corresponding figure of net profit on direct receipts alone was 5·3 per cent. The decrease was due mainly to the increase in interest charges at enhanced rates and to an increase in the capital outlay.

19. In paragraph 22 of the review for the year 1919-20 a brief description was given of the various projects which have been under the consideration of Government for the construction of new canals or irrigation schemes in the Province. It may be well to add here the present state of progress on these projects.

- (i) The Sutlej Valley Project received the sanction of the Secretary of State for India during the year and is now being administered by a separate Chief Engineer appointed for the purpose. At the close of the year under review some 4 Circles of Superintendence with 13 Divisions and 20 Sub-Divisions were constituted.
- (ii) *The Thal Canal Project.*—The Government of India deferred the consideration of this Project, but a further reference was made to them urging reconsideration of their decision. A level survey of the tract is being carried out, and a more detailed project estimate will be prepared from the accurate contour plans resulting from the survey (see paragraph 26 *infra*).
- (iii) *The Bhakra Dam Project.*—This can only be taken up after the Sutlej Valley Project on the Sutlej River has been constructed.
- (iv) The Haveli Project can only be taken up after the Panjnad weir of the Sutlej Valley Project is built.
- (v) *The Woolar Lake Barrage Project.*—This project still forms the subject of negotiations with the Kashmir Darbar.

GENERAL.

20. In addition to the expenditure incurred under capital and working expenses Rs. 1,34,757 were spent on works for which neither capital nor revenue accounts are kept, while Rs. 3,98,167 were booked under head Miscellaneous expenditure for surveys.

21. The working of the new system dealing with the timber traffic in the Jumna River continued to be satisfactory. The toll recovered during the year was Rs. 1,56,320, as compared with Rs. 1,20,632 recovered during the preceding year.

22. On the Western Jumna Canal, the construction of the auxiliary weir at Tajewala to ensure adequate supplies reaching the Eastern Jumna Canal was undertaken.

23. The evil of water-logging continues to spread on the Upper Chenab and Upper Jhelum Canals. On the Upper Chenab Canal it is making its appearance near Harpoki and at the tail below Mangtanwala, and also in the reach along the Main Line Upper and near Chichoki Malian, Main Line Lower, while on the Upper Jhelum Canal it is spreading in the reach of the canal below Khokhra between miles 53 and 63. The remedial measures hitherto adopted, to intersect the affected areas by surface drains and discharging them into one or other of the natural drainages have resulted in some improvement on the Upper Jhelum Canal, but on the Upper Chenab Canal its working is somewhat hampered by the obstructions put into the nullahs by the zamindars in order to secure flow irrigation during *kharrif*. On the Upper Chenab Canal Rs. 61,000 were paid during the year for damage done by water-logging along the Main Line Upper below Marala. Since the construction of the drains, however, an improvement is visible and areas previously water-logged are again coming under the plough. It is hoped, when these drains are fully completed and improvements made such as deepening and widening the drains and removing the obstructions put into the outfalls by the zamindars, that this area will be entirely re-claimed and further claims for compensation obviated. The Aik Nallah problem still remains unsettled, but so far as the canal-irrigated tract is concerned steps are being taken to construct drainage crossings on the Nokhar Branch and its distributaries whereby the flooding now occasioned by the overflow from the nullah will be entirely removed.

On the Lower Chenab Canal, further proposals for reducing the swamp area in the Hafizabad Tahsil of the Gujranwala District were considered and estimates for extending and clearing drains were in hand. Proposals for restricting irrigation on some distributaries as a precaution against swamping are also being worked out.

24. Considerable progress was made in reclamation by silt deposition in the low-lying area at Balloki Headworks, this being effected by turning in a volume of water direct from the river.

25. The Hydro-Electric Power Scheme at Renala in the Balloki Division of the Lower Bari Doab Canal noticed in paragraph 34 of the last year's review was sanctioned during the year and orders for power plant have been placed by Sir Ganga Ram with a Firm in England. Power is expected to become available for distribution in the winter of 1923-24.

26. Good progress was made with the Thal Project Survey Work. 12,500 miles of levelling of rectangles and 800 miles of check levelling were done during the season, *i.e.*, September 1921 to 10th April 1922 and 85 rectangles of 4,000 acres each were plan-tabled and soil surveys started.

27. In order to give the Upper Chenab Canal its full inflow as required by the percentage of culturable area commanded now proposed to be irrigated in different zones, mention of which was made in paragraph 31 of the last year's review, and at the same time to give the Lower Bari Doab Canal its full supply so as to meet all the latest developments on that canal it was ascertained that a full supply discharge of 15,000 cusecs would be required at the head of the Upper Chenab Canal against the existing discharge of 11,744 cusecs. Alternate estimates to give 13,500 and 15,000 cusecs are in hand.

28. A remarkable feature of the year was that on the 13th August 1921 a very heavy flood occurred in the river Jhelum and damaged a portion of the weir at Rasul on the Lower Jhelum Canal. The weirs at Jaba, Rahmanpur and Blimber on the Upper Jhelum Canal also sustained considerable damage, and have been and are being strengthened. This was the highest

flood ever recorded since the construction of the Upper and Lower Jhelum Canals. A considerable amount of damage was also done by this flood to *kharif* crops and to property in lands near the river, but the value of the resulting *rabi* crops was far in excess of the damage done.

29. At the end of July the river Indus came down in very high flood which equalled in some places and exceeded in others the record high flood of 1878. The Dhan Sikanai Flood Embankment was overtopped and breached, the river spill water passed down the Dera Ghazi Khan District from six miles above Kharakwala to Mithankote. To this spill water was added the spill from the breached Kot Daud Groyne and Brahman Flood Embankment. The Talai Embankment was breached in four places. The hill torrents came down in force and caused heavy damage to canals and crops. The movement of the Indus to the west has produced a complicated situation as the main stream has moved several miles away from the heads of the canals of the Indus Series in the Muzaffargarh Inundation Canals Division, and supply channels have now to be made for several miles along creeks to the main stream. The heads of canals of the Chenab Series were taken higher up the river and this has proved beneficial.

30. The Central Workshops Division in the past had been an integral part of the Upper Bari Doab Canal. It was separated therefrom from the beginning of the year under review and classified as a Productive Work.

The capital expenditure (direct and indirect) incurred during the year amounted to Rs. 1,23,803 bringing the total outlay to date to Rs. 14,65,198. The receipts amounted to Rs. 1,52,995, while the working expenses were Rs. 79,513, giving the net revenue of Rs. 73,482 or a return of Rs. 5.07 per cent. on the capital outlay.

The net profit earned, after defraying interest charges which amounted to Rs. 61,875, was Rs. 11,607, or 0.79 per cent.

There have been no works of importance carried out during the year. The new under sluice gates for the Khanki weir which neared completion at the end of the previous year were finished.

Twenty-six sets of gates and gearings of the *rajbaha* and minor types were sold and a certain number of winches of various sizes were made and placed on stock. The outturn receipts from Ashford's patent tube wells and pumps amounted to Rs. 32,700.

The contribution works done at the workshops included three hundred lattice steel poles made for the Hydro-Electric Pumping Installation which is being put down by Sir Ganga Ram at the Renala Fall on the Lower Bari Doab Canal.

31. The length of channels in operation at the end of March 1912 was 19,729 miles, viz., 4,348 miles of main and branch canals and 15,381 miles of distributaries as against 4,392 miles and 15,330 miles, respectively, in the previous year. The reduction in the length of main canals and branches is due to re-classification.

32. The interesting observation work started in *kharif* 1918 with a view to enable the Canal Engineer to acquire a more intimate knowledge of Irrigation practice in connection with the details of agricultural operations than they possess at present, was continued up to end of *rabi* season of 1920-21. The results of these observations for four crops have all been received and tabulated, and those for the following two crops will be tabulated when received from local canal officers.

33. As stated in paragraph 37 of the previous year's review a new Discharge Division was formed to collect discharges of the Punjab rivers with a view to obtaining information as to the losses or gains which occur from absorption or percolation in flow with special reference to the supplies which are available in the Indus River for distribution between the Punjab and Sind. During the year under review the work of observing discharges and recording gauges at selected sites on rivers was proceeded with. Steps were taken

to organise the work on such a basis as may give results of a high degree of accuracy and to this end current Meters are now being provided at the more important sites

It was also decided that the scope of this Discharge Division should be extended so as to include research work of practical utility and the co-ordination of the work of individuals and a note was issued for the information and guidance of all officers in the Department, explaining the objects which it is intended to serve and the way in which it is intended to organise the work.

34. Special contracts were entered into with three land-owners of the Lower Bari Doab Canal, viz., Sardar Jogindra Singh, Major Vaurenen and Colonel Cole, and with one or two others on the Lower Chenab Canal for the supply of water for irrigation at volumetric rates.

35. Like other canals in their early days the main line of the Lower Bari Doab Canal has been scouring its bed and consequently losing in full supply levels. As a result of this scouring action the Montgomery bridge collapsed and considerable expenditure had to be incurred on its repair. Proposals for regrading the main line on a flatter gradient of 1 in 8,000 instead of 1 in 6,666 in order to prevent scour have been approved, and the estimates are in hand.

36. During the year substantial progress was made in raising the surface levels above Renala Fall on the Lower Bari Doab Canal and elsewhere with a view to get extra head, reduce the velocity and induce a protective deposit of bed silt.

37. The amount expended on the maintenance of the canals in the Province has increased to 181 lakhs from 155 lakhs in 1920-21 and 135 lakhs in 1919-20, and 137 lakhs and 129 lakhs, the annual averages of the triennia ending 1920-21 and 1917-18. This continued increase in the cost of maintenance and of the establishment employed thereon, render it necessary that a larger income should be derived from the canals so that they may not lose their remunerative character. In the review of the previous two years it was clearly shown that the existing occupiers' rates are disproportionately low in comparison with the present day value of the crops matured, by canal water and the cost of maintenance of the canals which has considerably increased owing to the general rise in the cost of labour and materials. In addition, Government has now to pay a higher rate of interest on borrowed money. There is also a serious deficit in the Provincial Budget. To meet all these contingencies it is very necessary that the present schedule of occupiers' rates on all canals should be revised immediately.

LAHORE :

Dated 7th December 1922. }

W. P. SANGSTER,

Chief Engineer, Irrigation Works, Punjab.

Area irrigated during the Financial year 1921-22.

Name of Canal.	Civil District.	Kharif 1921.								Rabi 1921-22.				Grand Total	
		Sugar-cane.	Rice	Cotton.	Indigo.	Maize.	Chari, Jowar and Bajra.	Other crops.	Total.	Wheat.	Barely.	Mixed crops.	Other crops.		Total.
IRRIGATION CAPITAL WORKS, PRODUCTIVE.															
Western Jumna Canal	Ambala	151	1,228	41	...	50	4	54	1,528	52	45	...	1,199	1,296	2,824
	Karnal	14,960	12,320	17,647	2	1,738	23,915	5,654	76,256	67,836	6,516	4,131	43,072	121,538	197,811
	Delhi	5,085	52	651	...	24	2,352	3,423	12,517	10,797	165	77	6,212	17,262	29,769
	Hissar	1,662	1,762	26,057	...	1,335	13,084	14,321	97,421	89,628	15,181	30,977	82,327	167,113	264,434
	Rohtak	21,304	754	8,696	297	219	29,541	4,981	75,192	76,682	2,602	518	56,624	136,903	212,892
	Patiala State	863	397	7,193	...	57	21,290	3,327	23,661	19,045	12,994	5,886	17,653	55,674	88,635
	Jind State	6,707	2,814	5,331	...	...	...	8,159	23,011	21,717	705	319	11,585	34,326	67,337
	Bikaner State	...	...	...	...	...	...	3	3	10	37	...	9	76	70
	Kalsia State	63	735	22	...	24	2	15	801	84	23	...	781	889	1,749
	Total	51,034	19,862	75,543	299	3,417	130,248	89,917	326,380	234,811	38,189	42,311	210,169	534,984	856,368
Sirhind Canal (British)	Ludhiana	1,456	2	1,241	...	16,169	23,353	1,793	44,632	31,508	8,338	...	11,809	64,745	98,777
	Peresopore	781	...	7,966	...	28,620	221,642	59,140	318,155	208,004	17,391	112	128,391	441,308	759,463
	Hissar	...	...	49	...	1	1,854	347	2,255	63	131	...	187	381	2,636
	Patiala	197	...	1,101	...	8,065	42,434	10,430	63,827	34,100	21,869	978	2,736	77,692	140,509
	Nabha	210	...	651	...	5,165	20,050	2,195	28,271	16,300	8,781	378	9,670	35,122	62,603
	Jind	6	...	20	...	179	5,175	370	1,747	765	625	...	754	2,114	3,861
	Faridkot	39	...	1,615	...	10,277	44,980	6,059	63,891	45,341	10,286	194	25,763	90,594	154,475
	Kalsia	1	...	100	...	812	1,894	45	2,852	2,003	712	...	1,136	4,211	7,093
	Maler Kotla	110	...	109	...	160	1,703	23	2,113	785	505	...	9	999	3,112
	Total	2,808	2	12,872	...	70,051	359,117	81,293	526,143	343,639	168,860	1,662	198,915	707,476	1,233,010

Sirhind Canal (Native States).	Patiala ...	5,870	3,885	21,753	914	31,761	182,011	3,521	249,714	155,662	89,492	7,169	69,870	323,132	571,846
	Nabha ...	1,441	439	3,839	...	6,338	17,074	4,369	74,025	18,403	3,929	2,897	9,439	34,768	68,793
	Jind ...	980	1,150	2,084	132	3,093	13,455	5,370	24,414	12,638	2,135	618	10,431	25,822	50,236
	Total	7,961	5,474	29,265	436	41,777	214,010	10,200	308,153	186,703	95,456	10,623	89,910	382,722	690,875
Upper Bari Doab Canal...	Gurdaspur ...	13,243	15,773	3,637	...	5,806	11,180	3,957	63,621	12,638	514	16,063	9,997	39,212	92,888
	Amritsar ...	14,208	26,233	33,429	1	30,643	77,286	15,712	197,512	59,169	2,650	55,003	58,529	245,850	443,162
	Lahore ...	8,881	10,921	103,503	...	42,110	127,977	69,933	363,326	163,202	4,610	81,437	159,451	444,150	807,476
	Montgomery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lower Bari Doab Canal...	Total	36,337	52,930	140,589	1	78,559	216,443	89,601	614,459	271,309	7,204	152,523	297,977	729,012	1,343,471
	Lahore ...	40	777	776	...	...	955	333	2,031	1,043	10	...	1,642	3,505	6,525
	Montgomery ...	9,439	9,831	13,039	120	...	70,386	95,293	315,464	231,222	18,134	1,039	150,352	380,766	696,230
	Multan ...	3,245	667	69,869	40	...	41,485	3,831	136,137	91,801	4,566	...	57,518	154,555	280,723
Upper Chenab Canal ...	Total	12,724	11,275	191,034	166	...	112,826	126,507	454,532	324,966	23,110	1,068	189,822	538,946	993,478
	Sialkot ...	189	28,137	...	...	...	...	3,617	32,235	1,820	164	...	5	1,305	35,031
	Gujranwala ...	5,345	90,281	11,213	...	...	...	49,726	156,695	76,455	3,564	1,335	...	61,147	902,089
	Sheikhpura ...	3,426	78,622	9,677	...	...	...	34,539	126,264	66,429	4,401	566	...	61,034	291,744
Lyalpur ...	Lyalpur ...	744	11,789	5,457	...	...	...	9,169	20,159	244	5	...	...	149	26,557
	Total	9,704	208,929	26,880	...	...	...	86,741	341,254	174,448	8,184	1,906	129,679	814,167	655,421

Area irrigated during the Financial year 1921-22—concluded.

Name of Canal.	Civil District.	Kharif 1921.								Rabi 1921-22.							
		Sugar-cane.	Rice.	Cotton.	Indigo.	Maize.	Chari Jowar and Bajra.	Other crops.	Total.	Wheat.	Barley.	Mixed crops.	Other crops.	Total.	GRAND TOTAL.		
Lower Chenab Canal ...	Civil District.	IRRIGATION CAPITAL WORKS, PRODUCTIVE—concluded														Acres.	
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		
		Gujranwala		171,486
		Sheikhpura		416,278
		Lyallpur		1,620,736
Upper Jhelum Canal ...	Civil District.	Jhang	...	...	...	...	...	...	...	...	...	...	...	...	341,432	
		Total	...	...	...	...	...	...	...	...	...	...	...	...	2,560,932	
		Gujrat	...	...	...	...	...	...	...	...	...	...	...	...	...	356,177
		Shabpur	...	...	...	...	...	...	...	...	...	...	...	...	...	2,390
		Total	...	...	...	...	...	...	...	...	...	...	...	...	...	358,567
Lower Jhelum Canal ...	Civil District.	Shabpur	...	...	...	...	...	...	...	...	...	...	...	...	729,223	
		Gujrat	...	...	...	...	...	...	...	...	...	...	...	...	...	12,507
		Jhang	...	...	...	...	...	...	...	...	...	...	...	...	...	137,485
		Total	...	...	...	...	...	...	...	...	...	...	...	...	...	872,315
		Lahore	...	...	...	...	...	...	...	...	...	...	...	...	...	72,656
Upper Sutlej Inundation Canals.	Civil District.	Montgomery	...	...	...	...	...	...	...	...	...	...	...	...	204,394	
		Total	...	...	...	...	...	...	...	...	...	...	...	...	...	366,950

Sidhni Canal	...	Multan	...	347	2,028	797	89	1,767	30,557	51,252	80,767	82,325	3,954	...	71,107	157,280	244,053
Indus Inundation Canals	...	Dera Ghazi Khan	...	87	69,331	13,504	6,603	22	50,144	9,124	149,265	41,799	1,939	...	34,517	77,705	226,970
		Total	...	434	71,409	14,441	6,692	1,779	80,701	60,876	236,032	124,124	5,243	...	105,634	234,891	471,023
<i>Total Productive Works</i>																	
<i>UNPRODUCTIVE.</i>																	
Shahpur Canals (Imperial)	...	Shahpur	...	20	26	1,319	...	62	3,528	4,653	9,608	8,387	111	...	9,120	17,618	27,226
Ghaggar Canals	...	Hissar	...	...	7,370	...	...	...	1,990	151	9,511	384	53	809	8,193	9,430	18,360
	...	Bikaner	...	...	...	...	...	13	1,435	1,693	3,341	71	487	511	774	1,843	5,184
<i>Total Unproductive Works</i>																	
				20	7,396	1,319	...	75	7,153	6,497	22,430	8,842	651	1,320	18,087	28,900	51,360
<i>NON-CAPITAL.</i>																	
Lower Sutlej Inundation Canals.	...	Multan	...	58	760	7,861	4,790	46	53,542	45,037	112,094	94,553	2,748	...	51,330	148,630	260,724
Chenab Inundation Canals	...	Multan	...	1,448	1,397	5,608	673	1,047	21,876	33,410	65,039	53,973	1,418	...	26,310	81,731	146,790
Hajivah Canal	...	Multan	...	3	2	422	3	3	6,004	1,422	7,869	7,955	74	...	4,842	12,871	20,730
	...	Montgomery	...	...	...	17	...	2	129	76	224	263	15	100	196	574	798
Muzaffargarh Canals	...	Muzaffargarh	...	6,443	31,797	21,753	19,428	27	32,186	31,147	142,791	130,010	7,251	...	53,035	193,298	336,077
	...	Jhang	...	...	...	2	...	...	33	10	45	64	10	...	92	165	211
Shahpur Canals (Provincial)	...	Shahpur	...	95	124	833	...	175	2,185	14,194	17,606	4,921	41	...	4,701	9,603	27,269
	...	Jhelum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<i>Total Non-Capital Works</i>																	
				7,647	34,080	36,496	24,894	1,300	115,955	125,296	345,668	291,738	11,537	100	143,506	440,031	792,599
<i>GRAND TOTAL</i>																	
				214,902	502,064	906,950	32,531	329,668	1,740,211	919,521	4,645,847	3,520,657	391,555	266,174	2,421,465	6,000,926	11,215,773

THE following report deals with the work done on each canal in the Punjab and is based on the final figures of Area irrigated, Revenue, Expenditure, etc.

ADMINISTRATION REPORT OF THE CANALS IN THE PUNJAB

FOR THE YEAR

1921-22.

GENERAL.

1. The direct receipts and expenditure of the Irrigation Department during the year were as follows :—

Direct Receipts and Expenditure		DIRECT EXPENDITURE.			
Irrigation Works.	Contributions ...	1,35,793	2,79,369	5,78,481	8,57,850
	Imperial ...	55,604	5,479	1,10,675	1,16,154
Minor or unproductive Irrigation Works.	Contributions ...	...	2,461	7,331	9,792
	Non-Capital Works ...	5,62,181	...	9,41,874	9,41,874
GRAND TOTAL ...		*8,33,85,332	22,18,495	*1,75,99,549	1,98,18,044
Average of the three years ending 1918-19.		*8,19,77,127	6,21,804	*1,81,29,028	1,37,50,832

* Excludes "refunds of revenue."

2. The indirect revenue credited to the canals on account of Enhanced Land Revenue, etc., amounted to Rs. 1,78,91,092. The average credit on this account of the three previous years amounts to Rs. 1,32,04,203.

THE following report deals with the work done on each canal in the Punjab and is based on the final figures of Area irrigated, Revenue, Expenditure, etc.

ADMINISTRATION REPORT

OF THE

CANALS IN THE PUNJAB

FOR THE YEAR

1921-22.

GENERAL.

1. The direct receipts and expenditure of the Irrigation Department during the year were as follows :—
Direct Receipts and Expenditure.

CLASS OF WORKS.		Direct receipts.	DIRECT EXPENDITURE.		
			Capital.	Working expenses.	Total.
		Rs.	Rs.	Rs.	Rs.
Major or productive Irrigation Works.	Imperial ...	3,25,81,799	19,31,186	1,59,61,183	1,78,92,374
	Contributions ...	1,95,793	2,79,369	5,78,481	8,57,850
Minor or unproductive Irrigation Works.	Imperial ...	55,604	5,479	1,10,675	1,16,154
	Contributions ...	...	2,461	7,331	9,792
Non-Capital Works	...	5,62,131	...	9,41,874	9,41,874
GRAND TOTAL		3,33,35,332	22,18,495	1,75,99,549	1,98,18,044
Average of the three years ending 1918-19.		3,19,77,127	6,21,804	1,31,29,028	1,37,50,832

* Excludes "refunds of revenue."

2. The indirect revenue credited to the canals on account of Enhanced Land Revenue, etc., amounted to Rs. 1,78,91,092.
The average credit on this account of the three previous years amounts to Rs. 1,32,04,303,

3. The following table shows the areas irrigated by the several canals in 1921-22 as compared with the averages of the previous triennium and with the figures of 1920-21:—

Area irrigated.				Average of the three years ending 1920-21.	1920-21.	1921-22.
NAMES OF CANALS.						
<i>Major or Productive Irrigation Works.</i>				Acres.	Acres.	Acres.
Western Jamna Canal ...	{ Imperial ...	...	...	729,657	749,320	766,728
	{ Patiala State ...	...	...	68,581	69,831	88,635
Sirhind Canal ...	{ Imperial ...	...	...	938,633	1,073,103	1,233,619
	{ Patiala, Nabha and Jind States	...	...	571,357	6,32,316	6,00,875
Upper Bari Doab Canal	...	...	...	1,164,851	1,176,922	1,313,471
Lower Bari Doab Canal	...	...	...	800,025	852,638	993,478
Upper Chenab Canal	...	...	...	523,622	601,347	655,421
Lower Chenab Canal	...	...	...	2,396,800	2,395,976	2,560,932
Upper Jhelum Canal	...	...	...	296,835	345,189	358,567
Lower Jhelum Canal	...	...	...	806,472	823,021	872,215
Upper Sutlej Canals	...	...	...	309,408	326,477	366,950
Sidhni Canal	...	...	...	211,063	210,006	241,053
Indus Canals	...	...	...	223,381	249,402	226,970
Total Major or Productive Irrigation Works.	{ Imperial ...	...	...	8,430,797	8,803,406	9,622,404
	{ Native States ...	...	...	639,938	702,227	779,510
<i>Minor Irrigation Works classed as Unproductive and Non-capital. Unproductive.</i>						
Shahpur Inundation Canals	...	Imperial	...	32,826	35,941	27,226
Ghaggar Inundation Canals	...	{ Imperial	...	13,323	13,250	16,950
		{ Bikaner State	...	2,497	2,595	5,184
Total Unproductive Minor Irrigation Works	...		...	48,646	51,786	51,360
<i>Non-Capital.</i>						
Lower Sutlej Inundation Canals (including Hagiwal Canal)	...	...	...	241,512	233,061	282,252
Chenab Inundation Canals	...	...	...	146,888	131,360	146,790
Muzaffargarh Inundation Canals	...	...	...	334,360	330,167	336,288
Shahpur Inundation Canals (Provincial)	...	...	...	23,302	21,680	27,269
Total Non-Capital Works	...		...	746,062	716,271	792,599
Total	{ Productive ...	{ Imperial ...	...	8,430,797	8,803,406	9,622,404
	{ Native States ...	{ Native States ...	...	639,938	702,227	779,510
	{ Unproductive ...	{ Imperial ...	...	48,646	49,191	46,176
	{ Non-Capital ...	{ Native States ...	...	2,497	2,595	5,184
		...	...	746,062	716,271	792,599
GRAND TOTAL				9,915,143	10,273,600	11,245,873

Financial results.

4. The canals in the Punjab show the following results for 1921-22:—

I.— CANALS IN OPERATION CLASSED AS PRODUCTIVE.
Major or Productive Works.

Capital expenditure during the year.	{ Direct charges	...	...	Rs.	17,63,487
	{ Indirect charges	...	...		56,572
Total	...	...	...		18,20,059
The capital invested to end of 1921-22 amounted to	...	...	...		22,70,42,375
Income from all sources	...	...	...		5,04,72,891
Working expenses	...	...	...		1,72,22,310
Balance excess revenue being 14.63 per cent. on Rs. 22,70,42,375	...	...	...		3,32,50,581
Interest—					
Total direct outlay to 31st March 1922	...	...	...	Rs.	22,08,63,182
Less half outlay during 1921-22	...	...	...		8,81,744
Mean Capital at charge	...	...	...		21,94,81,388
Interest on total outlay to end of 31st March 1917, viz., Rs. 21,41,97,441 at Rs. 3.3252 per cent. and on Rs. 52,83,947 the outlay for 1917-18 to 1920-21 and half outlay during 1921-22 at 6.1038 per cent.	...	...	...		74,45,031
Net profit after paying interest in 1921-22	...	...	...		2,58,05,550
Ditto ditto 1920-21	...	...	...		2,53,48,234
Ditto ditto 1919-20	...	...	...		2,43,84,956
The earnings of the Major Works are shown in line 24 of the statement at pages 4 and 5.					

II.—IMPERIAL CANALS, UNPRODUCTIVE WORKS.

The capital expenditure (direct and indirect) on those canals for which Capital and Revenue Accounts are kept, viz., Shahpur Imperial and Ghaggar Canals, was Rs. 5,678. The total expenditure on such canals to end of the year was, therefore, reduced to Rs. 6,12,593.

			Rs.
The income from all sources <i>less</i> refunds amounted to	...	...	69,629
Working expenses <i>less</i> refunds	...	...	1,19,386
<hr/>			
Excess expenditure in 1921-22	...	...	49,757
Ditto in 1920-21	...	...	52,688
Ditto in 1919-20	...	...	19,928
<hr/>			

III.—NON-CAPITAL WORKS.

The canals in the Punjab classed as Non-Capital Works show the following results :—

			Rs.
The income from all sources <i>less</i> refunds amounted to	...	...	13,43,469
Working expenses <i>less</i> refunds	...	...	10,59,572
<hr/>			
Balance profit in 1921-22	...	...	2,83,897
Ditto 1920-21	...	...	3,42,530
Ditto 1919-20	...	...	5,56,538
<hr/>			

The financial results of each Unproductive and Non-Capital Work are shown in the body of the report.

5. The total number of dismissals and other severe punishments was 23 as compared with 41 in 1920-21 and 53 in 1919-20. Of this total 16 were dismissals, 11 for serious misconduct and 5 for inefficiency. In the previous year the corresponding figures were 7 dismissals after departmental enquiry, 9 for serious misconduct and 7 for inefficiency.

Other forms of punishments were inflicted in 7 cases. In one of these the punishment was transfer of the offenders, while in the remaining 6 cases reduction in rank or pay, or both, was ordered. The corresponding figures for 1920-21 were 3 punishments by transfer and 15 by reduction in rank or pay or both.

The total of 23, as usual, does not include minor disciplinary punishments.

PARTICULARS.		Serial No.	CANALS IN OPERATION CLASSED AS PRODUCTIVE.						
			Western Jumna Canal (including Siras Branch).	Sirhind Canal (Imperial).	Upper Bari Doab Canal.	Lower Bari Doab Canal.	Upper Chenab Canal.	Lower Chenab Canal.	Central workshop.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1	2	3	4	5	6	7	8	9	
I.—Capital (direct and indirect) outlay to end of									
1920-21 ...	1	1,79,04,433	2,59,29,700	2,24,53,504	2,26,17,022	3,53,74,189	3,30,61,784	...	
1921-22 ...	2	1,83,77,235	2,59,44,698	2,10,97,469	2,26,74,438	3,50,22,231	3,32,25,707	14,05,861	
II.—Income realized during the year—									
Direct, viz., water-rent and miscellaneous receipts.									
1920-21 ...	3	35,42,692	45,1,003	46,33,369	30,52,500	27,52,421	93,03,191	...	
1921-22 ...	4	29,93,407	51,79,889	43,62,846	29,62,352	30,59,056	91,22,281	1,52,995	
Indirect, viz., land revenue due to Irrigation Works, including water advantage rate.									
1920-21 ...	5	2,51,519	1,25,472	10,14,335	20,04,967	1,37,144	75,67,638	...	
1921-22 ...	6	2,17,993	1,26,077	9,01,991	20,32,499	39,59,854	73,14,370	...	
Total Direct and Indirect ...									
1920-21 ...	7	37,94,211	47,66,175	56,48,274	51,47,467	28,89,554	1,69,32,529	...	
1921-22 ...	8	31,11,466	51,05,966	52,04,810	43,94,950	69,45,910	1,69,36,651	1,53,095	
III.—Charges (direct and indirect) for the year—									
Maintenance, including Establishment.									
1920-21 ...	9	17,75,565	15,03,701	17,61,737	16,00,994	17,99,069	22,72,591	...	
1921-22 ...	10	18,14,322	15,52,679	19,60,760	20,01,390	19,70,312	29,95,757	77,921	
Interest on Capital outlay									
1920-21 ...	11	5,69,353	6,21,118	7,21,933	7,53,194	11,47,909	10,76,005	...	
1921-22 ...	12	5,81,683	6,29,112	6,60,190	7,57,824	11,51,035	10,96,587	61,876	
Total ...									
1920-21 ...	13	23,44,835	23,24,819	24,89,700	23,54,168	29,46,067	33,49,596	...	
1921-22 ...	14	24,03,208	23,60,861	25,80,240	27,68,214	31,21,847	40,92,314	1,39,796	
Profit and Loss—									
Amount ...									
1920-21 ...	15	14,10,273	21,41,256	31,53,574	27,93,279	— 56,503	1,35,81,233	...	
1921-22 ...	16	7,03,257	30,25,105	26,14,570	10,39,626	34,24,063	1,25,44,807	19,199	
(a) Including Interest on Capital outlay.									
Percentage on Capital outlay.									
1920-21 ...	17	8.09	9.45	14.07	12.35	— 0.16	41.08	...	
1921-22 ...	18	3.65	11.08	12.89	7.22	10.79	38.69	0.90	
(b) Excluding Interest on Capital outlay.									
On Direct Income.									
Amount ...									
1920-21 ...	19	17,67,107	31,37,802	28,71,232	14,51,506	9,54,852	70,02,600	...	
1921-22 ...	20	10,78,145	37,27,210	23,93,096	3,61,902	10,65,244	61,26,524	75,074	
Percentage on Capital outlay.									
1920-21 ...	21	9.67	12.15	12.79	6.41	2.70	21.45	...	
1921-22 ...	22	5.92	14.37	11.31	1.59	3.05	18.44	5.11	
On total income Direct and Indirect.									
Amount ...									
1920-21 ...	23	20,19,020	32,62,774	35,81,537	35,40,473	10,91,496	1,46,60,239	...	
1921-22 ...	24	12,96,143	38,53,297	32,05,050	23,91,460	49,75,793	1,39,40,891	75,074	
Percentage on Capital outlay.									
1920-21 ...	25	11.27	12.63	17.31	15.68	3.69	44.38	...	
1921-22 ...	26	7.05	14.85	15.62	10.59	13.96	41.96	5.11	

Financial Results.

MAJOR WORKS.					Total Productive.	PRODUCTIVE MAJOR WORKS UNDER CON- STRUCTION.	UNPRO- DUCTIVE.	NON- CAPITAL WORKS.	Serial No.
Upper Jhelum Canal.	Lower Jhelum Canal.	Upper Sattlej (including Lower Sohag and Para).	Sidhuai Canal	Indus Inundation. Canals.		Sattlej Valley Project.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	
10	11	12	13	14	15	16	17	18	19
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
4,45,07,867	1,78,30,476	19,31,301	13,33,253	29,75,443	22,52,22,316	...	6,06,916	...	1
4,45,61,917	1,79,98,712	19,29,777	13,30,543	29,73,787	22,70,42,375	1,77,364	6,12,593	...	2
19,83,890	28,52,535	5,59,821	2,52,264	2,78,619	8,32,61,484	...	82,702	6,74,670	3
15,21,971	26,89,101	5,41,431	1,48,202	3,12,265	3,25,81,799	...	55,604	5,62,181	4
...	15,80,111	2,76,683	1,18,937	3,47,730	1,34,91,458	...	22,195	8,07,943	5
6,40,834	16,91,720	2,37,100	1,21,821	3,16,799	1,78,91,092	...	14,025	7,66,776	6
18,33,890	43,82,640	8,30,406	4,01,251	6,26,979	4,07,55,892	...	1,04,897	14,82,618	7
21,62,605	44,79,527	7,78,591	2,70,023	6,28,998	5,01,72,991	...	69,029	13,28,907	8
12,17,041	10,81,254	5,50,050	1,65,050	3,69,223	1,40,76,193	...	1,57,595	11,40,083	9
17,30,809	14,85,599	6,91,852	2,03,736	7,62,173	1,72,22,310	...	1,19,886	10,59,572	10
14,00,812	5,78,452	57,405	42,915	96,219	73,31,465	...	...	...	11
14,67,824	6,17,179	57,791	42,840	96,622	74,45,031	5,223	...	...	12
23,77,853	10,39,700	6,07,453	2,08,895	4,05,411	2,14,07,658	...	1,57,595	11,40,038	13
32,04,183	21,02,776	7,49,143	2,46,682	8,73,195	2,40,67,341	5,223	1,19,356	10,59,572	14
— 13,47,483	27,42,940	2,48,951	1,92,359	1,50,938	2,53,49,231	...	...	...	15
— 10,41,328	23,77,049	20,418	23,441	— 2,49,187	2,58,05,550	— 5,223	...	...	16
— 8-03	15-83	13-50	14-45	5-41	11-25	...	...	...	17
— 2-87	13-25	1-00	1-79	— 8-39	11-30	— 2-95	..	...	18
1,13,849	17,91,281	9,771	83,314	— 00,573	1,91,85,241	...	— 74,583	— 4,65,413	19
— 2,14,883	14,02,503	— 1,49,021	— 53,531	— 4,09,905	1,53,59,490	...	— 63,783	— 4,97,447	20
0-25	10-34	0-53	0-47	— 8-04	8-52	...	— 12-34	...	21
— 0-48	7-82	— 8-19	— 4-17	— 15-80	0-76	...	— 10-01	...	22
1,18,340	33,21,302	2,86,856	2,35,301	2,57,157	3,26,79,099	...	— 53,588	8,42,530	23
4,25,996	29,94,228	87,239	66,287	— 1,53,175	3,32,50,581	...	— 49,757	2,98,935	24
0-25	19-18	15-64	17-05	8-04	11-51	...	— 8-68	...	25
0-95	16-72	4-76	4-98	— 5-15	14-03	...	— 7-12	...	26

Major Irrigation Works. WESTERN JUMNA CANAL.

(SUPERINTENDING ENGINEER—MR. T. M. BOSTOCK.)

1. The Imperial expenditure (direct and indirect) amounted to Rs. 4,72,802, incurred chiefly on the construction of the new weir at Tajawala, and on the Sub-Divisional Officer's residential quarters at Binjhol in the Delhi Division.

Capital Account—
Kharif 1921.
Rabi 1921-22.

The contribution share was Rs. 28,778.

2. An expenditure of Rs. 1,08,456 (Imperial Rs. 89,213 and contribution Rs. 19,243) was incurred on small works necessary for increasing the efficiency of the Canal.

Extensions and Improvements.

3. Expenditure amounted to Rs. 6,76,374 (Rs. 6,44,896 Imperial and Rs. 45,507 contribution as compared with Rs. 6,68,834 and Rs. 49,548, respectively, for the year 1920-21).

Maintenance and Repairs.

The most important work done was the repairs to the downstream floor of the Eastern Jumna Canal Undersluices at Tajawala.

4. The season was favourable from an irrigation point of view. The months of April and May were practically rainless. About the end of June a little rain fell over nearly the half of the area commanded by the canal.

Nature of seasons

The monsoon broke on the 12th July and withdrew in the last week of the month. The rain was heavy and widespread. During August from 2nd to 16th the rainfall was also well distributed over almost the whole tract.

No flood of importance occurred. The highest gauge registered at Ponta was 23·7 on 18th August 1921 as against the maximum ever recorded of 38·5 on 14th August 1903.

The absence of rain created an intense demand for canal water. The supply in the river from April to June was hopelessly inadequate and was, during the month of June, the lowest on record since 1900. Supply began to increase from about the 10th of July and was sufficient for our needs up to the end of October. The supply during *rabi* was below indent but above normal.

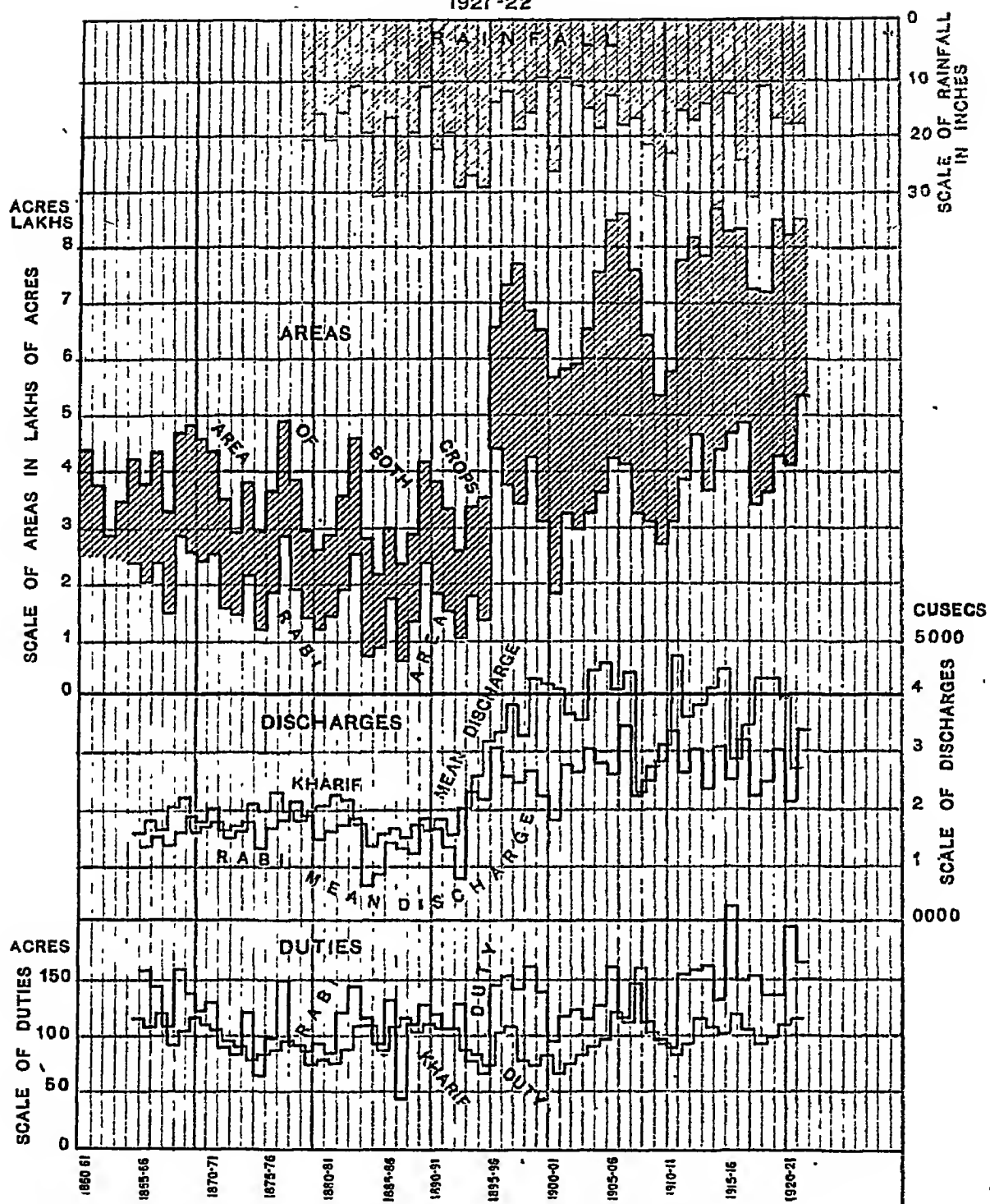
The following table compares the rainfall at certain selected important sites during the year with that of the years previous :—

Station.					1921-22.	1920-21.	Average previous to 1920-21.
					Inches.	Inches.	Inches.
Ponta	...	...	...	...	64·90	52·51	58·90
Tajawala	...	...	...	...	50·37	40·39	53·25
Dadupur	...	...	...	...	40·61	39·50	41·68
Indri	...	...	...	...	23·99	18·15	27·65
Karnal	...	...	...	...	24·78	16·65	26·11
Munak	...	...	...	...	26·03	15·96	22·26
Delhi	...	...	...	...	23·00	24·60	20·25
Rohiakh	...	...	...	...	19·77	15·56	17·33
Hissar	...	...	...	...	12·65	7·84	14·20

WESTERN JUMNA CANAL.

WORKING RECORD.

1921-22



N. B.—The intercepts in the red area show the Kharif acreage each year.

The areas shown include those done in Patiala State on Sirsa, Branch.

The discharges are as measured at canal head, and are averages utilised for the whole of each crop.

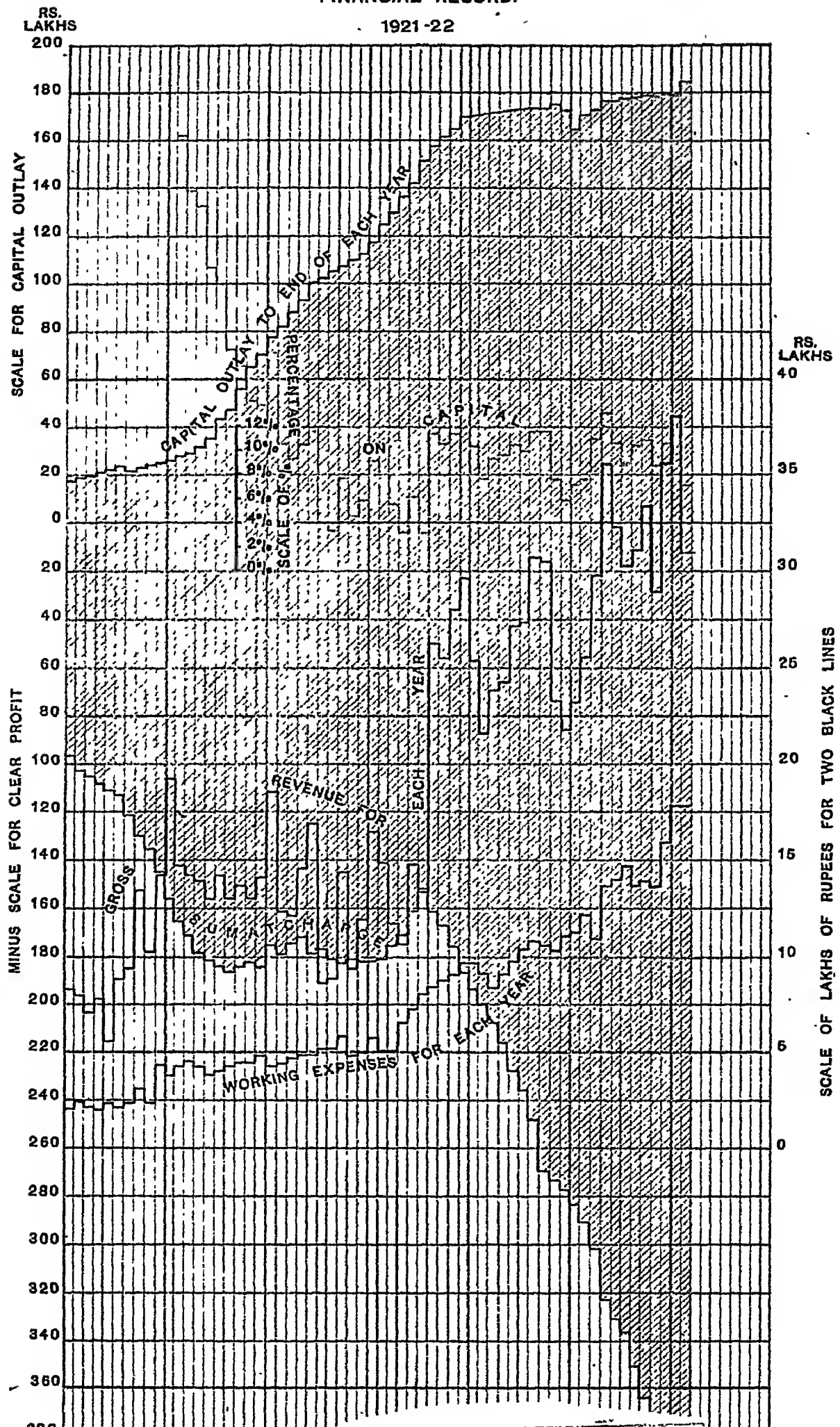
but from and after 1921-22 they are mean discharges calculated on total number of days in the season.

The duties are derived from these areas and discharges.

WESTERN JUMNA CANAL.

FINANCIAL RECORD.

1921-22



5. The following table compares the irrigation effected during the year with that of 1920-21 and the averages of the triennia ending 1917-18 and 1920-21 :—

Area irrigated—
Kharif 1921.
Rabi 1921-22.

CROP.	AVERAGE OF THE THREE YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres	Acres.	Acres	Acres.
Kharif	360,703	394,530	409,981	320,380
Rabi	132,192	403,708	409,217	534,983
Total	792,055	798,238	819,201	855,313

The above shows that the total irrigation of the year was much better than the irrigation of either of the previous two triennia and of the year 1920-21. The shortage of irrigation in the *kharif* season was due to the abnormally low supply in the river.

6. *Imperial*.—The gross revenue realized was Rs. 31,11,465, while the working expenses amounted to Rs. 1,15,322, yielding a net revenue of Rs. 1,96,143 as compared with Rs. 18,47,274 the average of the previous triennium and Rs. 20,18,626 of the preceding year. This represents a return of 7.05 per cent. on the capital cost of the canal. Out of the gross income the navigation receipt was Rs. 1,56,320 compared with Rs. 1,20,632 in the previous year, the increase being due to the fact that timber held up during the previous year on account of low supplies in the hill torrents came down this year.

Contribution.—The net revenue received by the Patiala State for their channels on the Sirsa Branch amounted to Rs. 85,460 or 7.16 per cent. on the capital invested, as compared with an average of Rs. 1,95,319 or 16.79 per cent. for the triennium ending 1920-21 and Rs. 1,99,299 or 17.10 per cent. of the previous year.

7. As compared with the corresponding figures of the years 1919-20 and 1920-21, the area irrigated during the *kharif* season was considerably smaller due chiefly to a reduction in the area of cotton, it being only 75,543 acres as against 106,906 acres in the preceding year. This was attributable partly to abnormally low river supply and partly to fall in price which was as high as Rs. 28 a maund in 1920 and fell to Rs. 12 in 1921.

Rabi figures call for no remarks.

8. The irrigation done in the Patiala and Jind States from the Sirsa and Hansi Branches, respectively, compared with that of the two preceding triennia, are given in the statement below :—

PATIALA STATE.

CROP.	AVERAGE FOR 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
Kharif	36,254	39,891	40,878	33,061
Rabi	36,411	28,699	29,003	55,574
Total	72,665	68,580	69,881	88,635

JIND STATE.

CROP.	AVERAGE FOR 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>Kharif</i>	29,092	31,510	31,298	23,011
<i>Rabi</i>	31,078	27,856	28,223	34,326
Total	60,170	59,366	59,519	57,337

BIKANER STATE.

The area irrigated was 79 acres against 46 acres proposed to be annually irrigated. This is evidently due to short supply at the tail of the Hissar distributary.

KALSA STATE.

The area irrigated from the Main Line of the canal was 861 acres in *kharif* and 888 in *rabi* or a total of 1,749 acres.

SIRHIND CANAL.

(SUPERINTENDING ENGINEER--MR. R. CANNELL.)

1. (a) *Imperial*.—The expenditure (direct and indirect) amounted to Rs. 1,14,998 and was incurred on constructing distributary No. 3, Sutlej Navigation Channel, two Sub-Overseers' quarters, Clerks and Munshis' quarters at Dadanhar and a vernacular office at Bhatinda; and enlarging existing Executive Engineer's quarters at Bhatinda.

(b) *Contribution*.—The expenditure of Rs. 15,367 represented the share borne by the Signatory States of the expenditure incurred on the Head Works and Main Line and also the expenditure incurred by the Patiala Division.

2. (a) *Imperial*.—The expenditure amounted to Rs. 68,195 against Rs. 1,05,107 in the previous year and was incurred chiefly in remodelling the head regulators of certain distributaries, constructing subordinates' rest-houses at Bhatinda, lineman's quarters at Mehna, and *pucca* ghât at R. D. 641,000 feet, Abohar Branch; and on other petty works such as remodelling distributaries' bridges; adding filters to certain drinking reservoirs at inspection houses, and planting avenues along Lalbhai and Teona distributaries.

(b) *Contribution*.—A sum of Rs. 1,71,388 was spent, of which Rs. 1,56,959 represented the seigniorage charges. The remainder was a small amount representing partly a share of expenditure on Head Works and Main Line and partly the expenditure incurred mainly on improving accommodation for touring establishment and resident menials; constructing drinking water reservoirs at different sites and providing additional accommodation at three of the mills.

3. (a) *Imperial*.—Expenditure was Rs. 4,19,725 against Rs. 4,47,571 in the preceding year.

Maintenance and repairs.

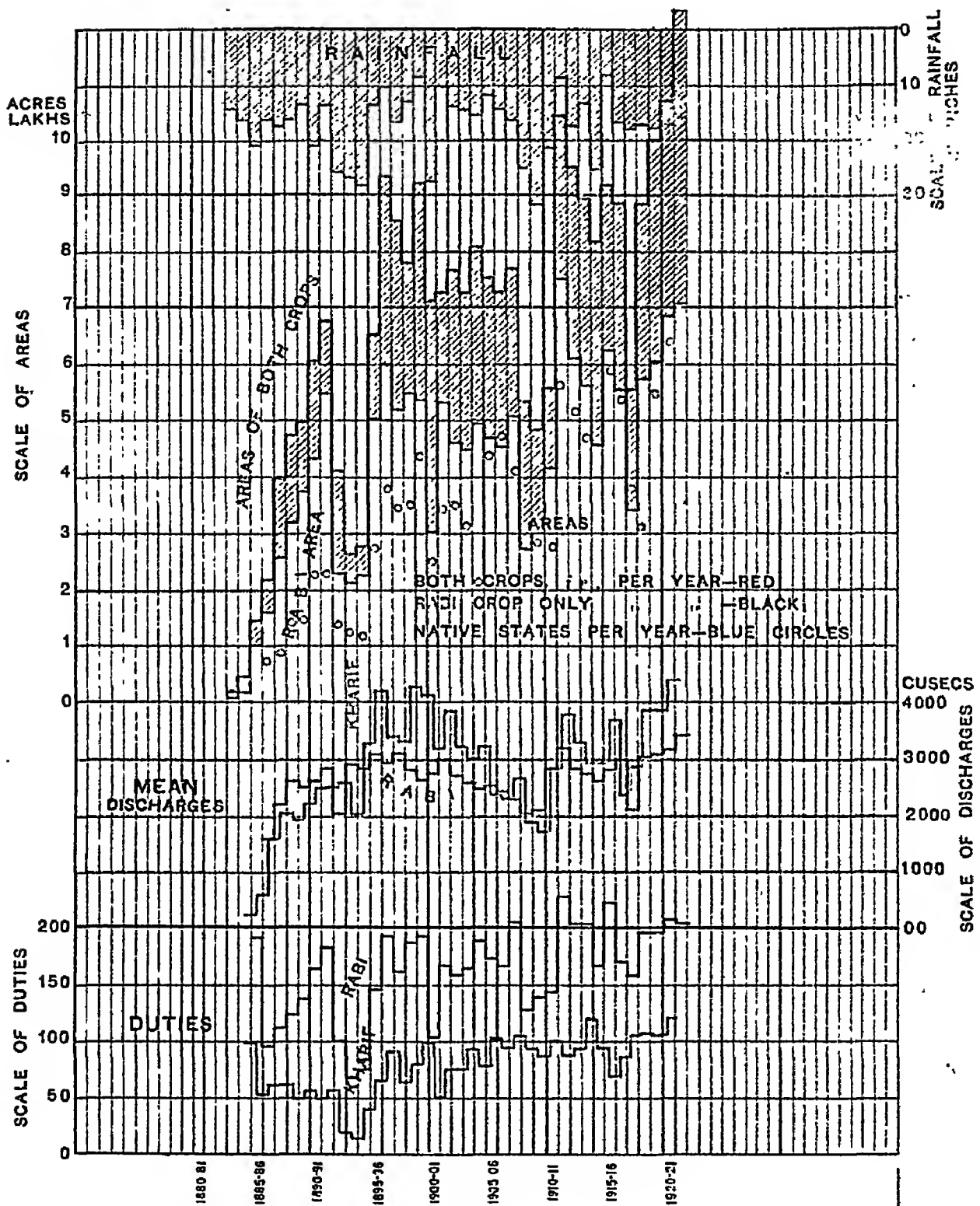
In addition to the ordinary maintenance of the channels, works and buildings, expenditure was incurred on renewing shoots of mills in Gholia Sub-division; double precise levelling of all channels in Bhatinda Division; making silt vanes in Bhatinda Branch, R. D. 276,000 feet, to prevent silting in Phul distributary.

(b) *Contribution*.—Rs. 1,14,372 were spent against Rs. 1,38,324 in the previous year on the ordinary maintenance expenses of the Native States Branches plus the share of expenditure on the Head Works and Main Line.

SIRHIND CANAL—BRITISH.

WORKING RECORD..

1921-22



N. B.—The intercepts in the red area give the Kharif acreage each year.

The small areas of 1892 to 1896 were partly due to silt difficulties, but chiefly to heavy rain. The working is more or less unsteady always.

The discharges are measured in main line 26 miles from the head and are average, but from and after 1921-22 they are mean discharges calculated on total number of days of the season. Of the whole supply 36% goes to Native States, not included here; so that the discharges here shown are only 64% of the actual flow.

These States ought therefore to do areas equal to $\frac{36}{64}$ ths of those shown above. The actual areas done for both crops are shown for comparison by blue circle, and it will be seen that owing to less efficient management they have done less than half the British, instead of $\frac{36}{64}$ ths. In winter the whole river is taken in; in Kharif the supply is more than enough, but the demand is then always low.

4. The months of April and May were dry. The rainfall received in June was light while that received in July and August was abundant and widespread. Light showers occurred in September and October.

There was no rainfall in November, and the few showers that were received in December greatly helped the *rabi* sowings. On the whole the monsoon was defective and unfavourable for agriculture. There was no calamity to crops.

The monsoon closed early and consequently the demand was exceptionally keen. Distributaries worked satisfactorily to their limiting capacity. Breaches were comparatively numerous owing to deliberate cuts made by zamindars to water their *barani* crops when there was a scarcity of rainfall.

The channels on the whole worked fairly well and there were few complaints of shortage of supply.

The canal was closed for only 12 days in the *kharif* and remained in flow throughout the *rabi*.

The following table compares the mean rainfall of the year by seasons and districts over the irrigated tract with the average mean of 38 years :—

District.	Crops.	RAINFALL.		Percentage of actual to average of 38 years.
		1921-22.	Average 38 years.	
Ludhiana	<i>Kharif</i> 1921	8.65	15.86	59
	<i>Rabi</i> 1921-22	3.04	3.85	
	Total	11.69	19.71	
Ferozepore	<i>Kharif</i> 1921	5.30	11.53	49
	<i>Rabi</i> 1921-22	1.38	2.21	
	Total	6.68	13.74	
Native States	<i>Kharif</i> 1921	8.41	15.09	61
	<i>Rabi</i> 1921-22	2.75	3.10	
	Total	11.16	18.19	

Area irrigated—
Kharif 1921.
Rabi 1921-22.

5. The following table compares the irrigation effected in each crop with the figures of the two previous triennia and of the year 1920-21 :—

CROPS.		AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
		1917-18.	1920-21.	1920-21.	1921-22.
<i>British Branches.</i>		Acres.	Acres.	Acres.	Acres.
<i>Kharif</i>	...	277,962	367,693	392,923	526,143
<i>Rabi</i>	...	512,229	620,940	680,186	707,476
Total	...	790,191	988,633	1,073,108	1,233,619
<i>Native States Branches.</i>					
<i>Kharif</i>	...	196,205	232,180	244,433	308,153
<i>Rabi</i>	...	301,837	330,177	387,913	382,722
Total	...	498,042	561,357	632,346	690,875
<i>Totals British and Native States Branches.</i>					
<i>Kharif</i>	...	474,167	599,873	637,356	834,296
<i>Rabi</i>	...	814,066	950,117	1,068,098	1,090,198
Total	...	1,288,233	1,550,990	1,705,454	1,924,494

It will be seen from the above that with regard to irrigation the year under review was a very favourable one. Taken harvest by harvest the area irrigated on British Branches during *kharif* was the largest on record while that during *rabi* was exceeded only once, namely, in 1911, when the irrigation was 754,723 acres. For the whole year the area irrigated was the maximum ever reached on the British Branches.

In the case of Native States Branches also the area irrigated during *kharif* beats the record, while that during *rabi* was the second best, the previous best being *rabi* of 1920-21, when 357,913 acres were irrigated. When comparing the figures for 1921-22 with the average of the triennium ending 1917-18 it should be borne in mind that the conditions in the year 1917-18 were abnormal seeing that in this year the rainfall was double and area irrigated less than two-thirds of normal.

The large area sown is due to the fact that there was practically no *barani* crop.

Navigation.

6. The details of traffic in tonnage and receipts are shown in the following table:—

Particulars.	1920-21.	1921-22.
Tonnage carried	Tons. 48,478	30,812
Value of tonnage	Rs. 28,65,535	17,87,351
Toll receipts and raft dues	Rs. 22,200	20,890
Maintenance charges	Rs. 3,074	1,717
Number of passengers carried	No. 25,091	30,303

7. (a) *British Branches*.—The net revenue from all sources after deducting working expenses amounted to Rs. 38,53,287 giving a return of 14·85 per cent. on the capital cost against 12·63 per cent. in the preceding year.

Financial results based on collections—
Rabi 1920-21.
Kharif 1921.

(b) *Native States Branches*.—The following table compares the figures for the present and previous years in collections, assessments, areas assessed and the profits:—

Year.	AMOUNT OF REVENUE.		Area assessed.	PROFIT ON	
	By collec- tion.	By assess- ment.		Collection.	Assessment.
	Rs.	Rs.		Rs.	Rs.
1920-21 ...	20,15,155	20,84,834	6,31,606	12·64	14·87
1921-22	31,20,817	31,30,952	6,60,955	15·64	15·65
More or less ...	+ 5,14,092	+ 1,90,118	+ 58,250	+ 3·00	+ 0·78

The States have, therefore, also had a prosperous year.

8. (a) *Areas of principal crops*.—*General Remarks*.—*Sugarcane*.—Area assessed was 2,749 acres against 3,612 acres in the previous year.

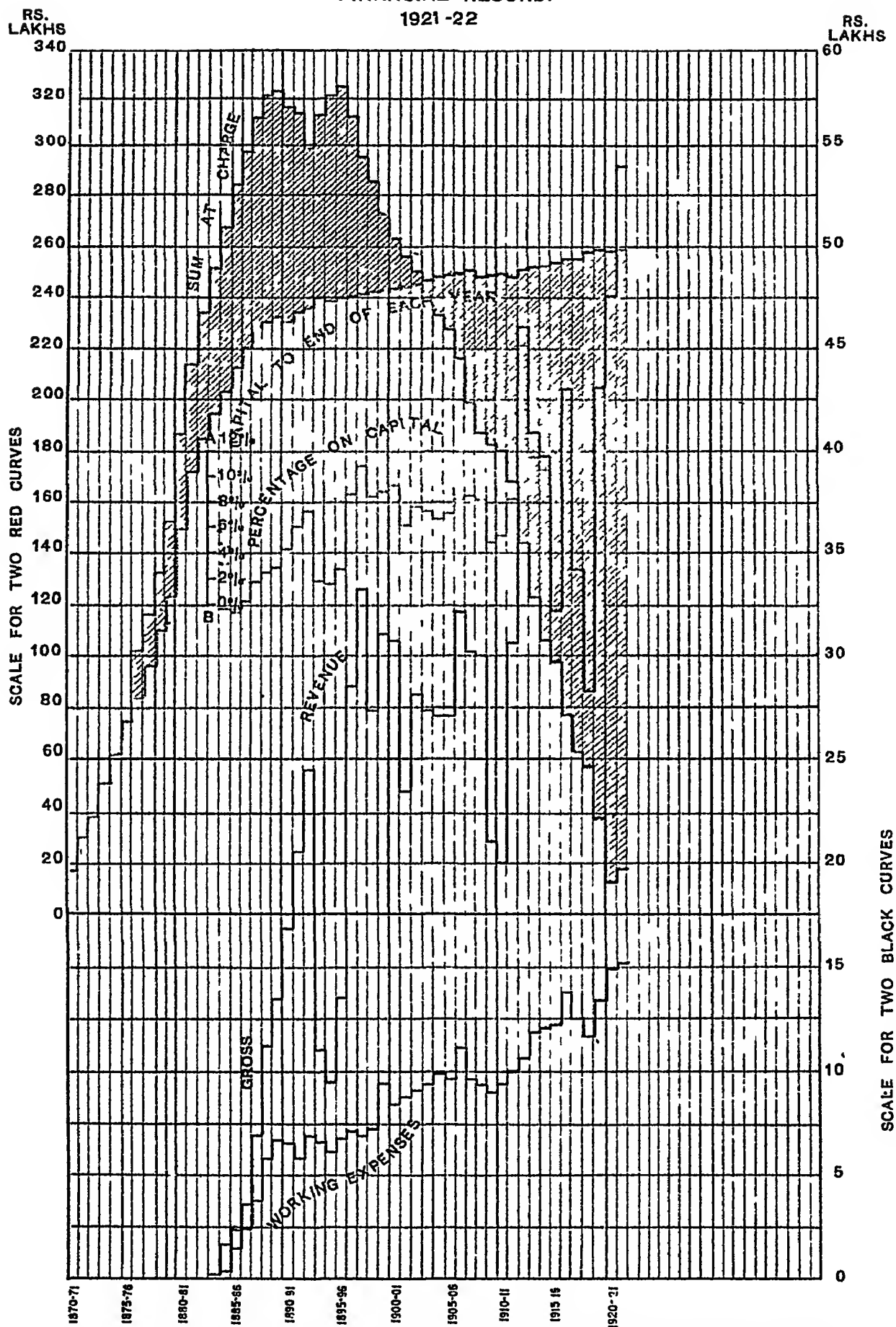
Cotton.—Area assessed was 41,137 acres as against 121,118 acres in the preceding year. Of this only 1,200 acres were of the American variety as against 26,701 acres in the previous year.

Wheat.—Area assessed was 327,613 acres against 362,074 and 318,283 acres in the two preceding years.

SIRHIND CANAL—BRITISH.

FINANCIAL RECORD.

1921-22



N. B.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge. Where the two red curves cross all such arrears were wiped off, and there after accumulated profits accrue, as measured by the intercepts in the blue area.

The scheme was begun about 1870 and opened in 1883-84. The lapse from prosperity shown in period 1888 to 1896 was partly due to silt troubles since overcome, and to exceptionally heavy rain.

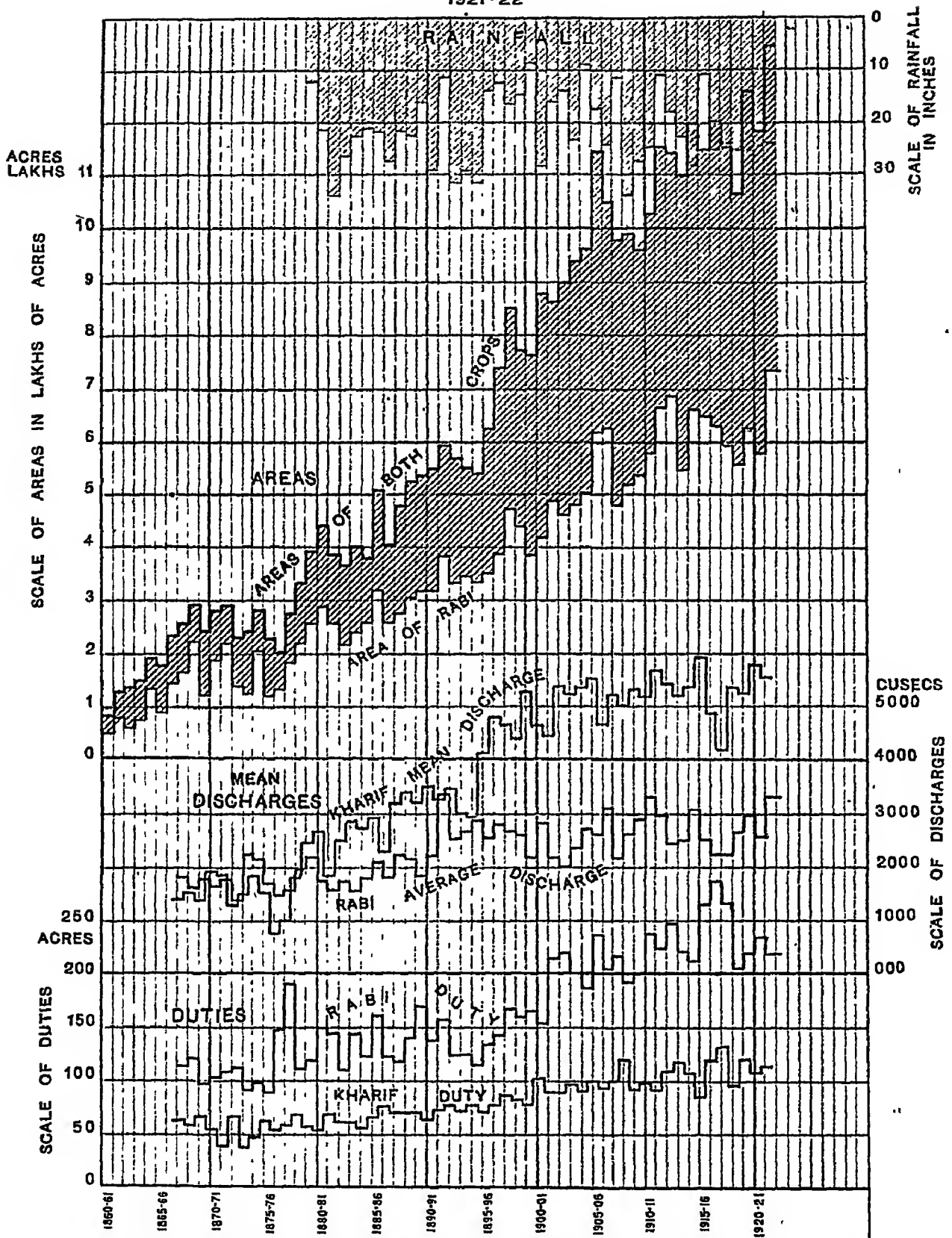
The intercepts between the black curves give the net revenue.

No interest is charged on the arrears of interest, so the sum at charge is somewhat untrue.

UPPER BARI DOAB CANAL.

WORKING RECORD.

1921-22



N. B.—The intercepts in the red area show the Kharif acreage each year.

The discharges are measured at canal head and are averages for each crop, but from and after

1921-22 they are mean discharges calculated on total number of days of the season.

The duties are derived from these areas and discharges.

Remarks.—The Kharif duty is fairly uniform and increasing slowly.

The Rabi duty is more irregular, due to variation in demand, but is increasing recently.

The Rabi supply decreased fairly steadily from 1891-92 to 1902-03, but nevertheless the areas increased owing to higher duty.

The Kharif supply has increased since 1894 very considerably, owing to the capacity of the canal being enlarged.

Usually the whole of the river winter supply is taken in for the Rabi crop, but after March and up to September the river supply is in excess of requirements.

(b) *Agricultural conditions.*—The year was a prosperous one. There were no calamitous failure of crops or supply and no large breaches.

No trouble due to waterlogging was experienced anywhere in the Ludhiana Division, and the evils of the wet year 1917-18 are no longer apparent.

(c) *Discharge observations.*—The gauge and discharge stations at Bhakra on the Sutlej and Pang on the Beas are kept up and very useful information is obtained from them. Weekly discharges of the Beas near Beas Bridge are taken by the Upper Bari Doab Circle and the information is important and useful.

UPPER BARI DOAB CANAL.

(SUPERINTENDING ENGINEER—RAI BAHADUR LALA WAZIR CHAND CHOPRA.)

1. The expenditure (direct and indirect) on works, excluding suspense, amounted to Rs. 252 against Rs. 34,598 in the previous year and was incurred mainly in the improvements of buildings. Expenditure was very much curtailed for the sake of economy, so that practically no new expenditure was incurred during the year.

Capital Account—
Kharif 1921.
Rabi 1921-22.

The suspense account showed a credit balance of Rs. 14,962 as compared with a debit balance of Rs. 1,79,730 in the previous year, due to a credit of Rs. 19,616 on account of stock issued on works.

2. Expenditure amounted to Rs. 81,356 against Rs. 86,016 in the previous year and was incurred chiefly on constructing new head of Kashmir Canal, extending the protection bund of Kashmir Canal, 'lowering crest of Lower Training Works, Madhopur,' and 'setting back and widening banks of Kasur Branch Upper.'

Extensions and improvements.

3. The expenditure amounted to Rs. 8,23,570 against Rs. 6,16,541 in 1920-21. In addition to ordinary annual maintenance, expenditure was incurred on repairs to outlet floor at Madhopur, to Dhangu Training Works, and other works on the River and canal head.

Maintenance and repairs.

4. The following table compares the area irrigated during the year with the averages of the two previous triennia and the area irrigated in the preceding year :—

Area irrigated—
Kharif 1921.
Rabi 1921-22.

CROP.	AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
Kharif ...	538,340	500,026	606,170	614,459
Rabi ...	325,344	574,826	570,752	729,012
Total ...	1,163,684	1,164,852	1,176,922	1,343,471

A remarkable feature relating to the area irrigated during the year is that the *rabi* area was the maximum ever recorded and the total irrigation for the year beats all previous records. The year was thus a very favourable one from an agricultural point of view. The rainfall was timely and heavy and this helped the sowing of crops which subsequently were canal irrigated. Beginning with the *rabi* season of 1921-22 the periods of rotational turns of canal supply were so arranged, that each distributary could run full supply for at least one full week, so that every shareholder on an outlet could have his turn. This also considerably helped in increasing the irrigation.

Nature of season and state of demand
and supply—
Kharif 1921.
Rabi 1921-22.

5. The mean rainfall by districts is compared with the average of the past 3 year in the following table :—

DISTRICT.	1921.	1922.	AVERAGE OF PREVIOUS 3 YEARS ENDING 1920-21.	
	<i>Kharif.</i>	<i>Rabi.</i>	<i>Kharif.</i>	<i>Rabi.</i>
	Inches.	Inches.	Inches.	Inches.
Gurdaspur ..	19.97	4.88	22.04	4.63
Amritsar ...	10.78	2.79	12.02	3.26
Lahore ..	12.41	1.61	9.94	2.02

The monsoon of 1921-22 arrived in the second week of July ; it continued regular and good till about the end of September when the monsoon ceased. The rainfall was well distributed.

In the Head Works Division the fall from April 1921 to September 1921 amounted to 24.78 inches against 23.60 inches during the corresponding period of the previous year.

From December 1921 to March 1922 also the winter rains, which were well distributed, proved very beneficial to the *rabi* crops.

There were no floods of any great magnitude in the river Ravi, but several, ranging from 12 feet to 17 feet, were observed at Mukesar. The highest flood of the season was 17.4 feet on 3rd August 1921 with a discharge of 3,700 cusecs against the highest ever recorded 30 feet in 1900, and 22 feet on 23rd July 1920.

6. The income (direct and indirect) after defraying working expenses, which amounted to Rs. 19,19,760, was Rs. 32,95,050 equivalent to 1.32 per cent. on capital invested, compared with 17.31 per cent. of the previous year. The decrease was due mainly to a decrease of about 50,000 acres in the figures of area assessed during the crops on which realization was made. The uncollected balance of occupiers' rates was Rs. 45,696 against Rs. 37,493 at the end of the previous year. Remissions of water-rate amounted to Rs. 58,136 against Rs. 59,661 of the previous year.

The area for which remissions were granted was 16,145 acres as compared with 28,568 acres of 1920-21.

7. (a) The average duty per cusec on the supply utilized was 105 acres in *kharif* and 219 acres in *rabi* as against 102 acres and 214 acres, respectively, of the previous year.

The canal was closed for 15 days in January 1922 for carrying out general repairs to several masonry works.

(b) *Principal crops.*—The areas of the principal crops grown are given in the following statement :—

N. me of crop.	1920-21.	1921-22.
	Acrea.	Acrea.
Wheat ...	227,758	270,215
Barley ...	13,082	7,115
Rice ...	62,809	52,231
M.ize ...	55,580	73,788
Milleta ...	2,206	10,463
Cotton ...	201,643	136,704 *
Sugarcane ...	47,059	35,577

* Desi = 131,752
American = 4,952.

Irrigation under cotton and sugarcane declined, whereas under wheat it increased by about 20 per cent. as compared with figures of the preceding year.

(c) *New Works contemplated.*—An estimate for work of Radial Arm Gates at Head Works, Madhopur, has been prepared. It amounts to Rs. 3,20,000 and if sanctioned, some Rs. 2,00,000 will be spent during 1923-24. It is not proposed to take any other large scheme in hand on account of stringency of funds. In order to effect a saving in expenditure proposals to reduce the number of Divisions in the Circle is under consideration.

LOWER BARI DOAB CANAL.

(SUPERINTENDING ENGINEER MR. M. S. DHOBY.)

1. The expenditure (direct and indirect) amounted to Rs. 1,48,394. The recovery of Rs. 61,396 effected from the cultivators on account of the net cost of water-courses and a credit of Rs. 30,162 on account of receipts on Capital Account reduced the above figure to Rs. 56,836 and brought the total capital outlay to date to Rs. 2,26,74,435. The works carried out were:—erecting a fish ladder for Balloki weir; constructing 2 R A and 1 R/2 R A distributary, two minors, masonry works on 3 R/8 R and 3 R/10 R, a district road bridge at R. D. 3,150 of 2 L/10 R, and boundary road culverts and Kennedy Gauge Outlets on 2 L distributary, residential quarters for one sub-divisional officer and certain subordinates, 4 patwarkhanas, a dispensary at Okanwala and a Post Office at Dhaya; and remodelling and realigning Dad Fatiana major distributary.

Rs. 42,588 were spent on construction of water-courses bringing the total expenditure to date under this head to Rs. 15,34,602. The net amount of recoveries to date credited to this fund is 8,72,445. This is the 4th year of recoveries under the acreage rate.

Contribution work.—The following works were carried out through the agency of this department during this year:—

Excavating Dhuniwala distributary and its minors; and constructing water-courses of Khokhar lift scheme, 1 L distributary, 18 outlets of proportional type on 1 L distributary, head regulator of 1 R A distributary, flumes on water-courses of Mauza 3 of Renala distributary and water-course schemes of lift area on 7 R distributary of villages 117 and 119 on 7 D R and village 120 on 7 E R.

2. The expenditure amounting to Rs. 1,07,855 was incurred on:—

- (1) Conversion of tail inlet of the Upper Chenab Canal into a broad crested measuring weir. It is simple in design and yet reliable.
- (2) Additions and alterations to regulating bridge at R. D. 403,505.
- (3) Various works connected with the raising and regrading of the first 30 miles of the Canal.
- (4) Constructing new Head Regulator 1 R/15 L.
- (5) Converting Kuhlwala regulating bridge at R. D. 391,947.
- (6) Constructing proportional distributors, tail clusters, meters and outlets, and.
- (7) works of extension on minors 2 R/12 L and 3 L/12 L, and of establishing some avenues, fixing Kennedy Gauge Outlets, constructing boundary road culverts and metalling ramps.

3. The expenditure amounted to Rs. 6,91,229 and was incurred on the following important works in addition to ordinary maintenance of headworks, main line, distributaries, buildings and plantations:—strengthening floors of bridges

Maintenance and repairs.

mainly on main line in the Montgomery Division at an expenditure of Rs. 1,95,251. The new floor up and downstream and protection stone apron at the Montgomery Bridge at R. D. 340.850 Main Line, where 3 spans collapsed suddenly on 14th December were carried through rapidly, working day and night at high pressure at a cost of Rs. 51,559. Work was carried out during canal rotational closures so as to cause as little interference as possible with irrigation requirements.

4. The canal was in flow at head for 319 days during the year (183 days during *khariif* and 136 days during *rabi*) as against 330 days of the previous year. During the *khariif* season the canal was continuously in flow. The demand for canal water throughout the year was keen and the supply satisfactory on the whole.

The average supply at canal head compares with that in 1920-21 as below :—

					Canal Head.
					Cusecs.
1920-21	{ <i>Khariif</i>	...	...	...	5,833
	{ <i>Rabi</i>	...	...	...	3,096
1921-22	{ <i>Khariif</i>	...	...	...	6,510
	{ <i>Rabi</i>	...	...	...	4,050

There was a marked improvement in the *rabi* supplies in the year under report and this resulted in a record *rabi* harvest, the matured area being 60,000 acres in advance of the project figures.

The rainfall throughout *khariif* was fair and compares with that of the previous year as below :—

	1921-22.	1920-21.
	Inches.	Inches.
Lahore District	13.75	9.35
Montgomery District	6.67	3.58
Multan District	7.22	6.18

5. The following table compares the area irrigated each year since the commencement of irrigation on this canal with the area proposed to be irrigated annually in the project estimate. The irrigated area has, for the first time, exceeded the project estimate both in total for the year and in each season :—

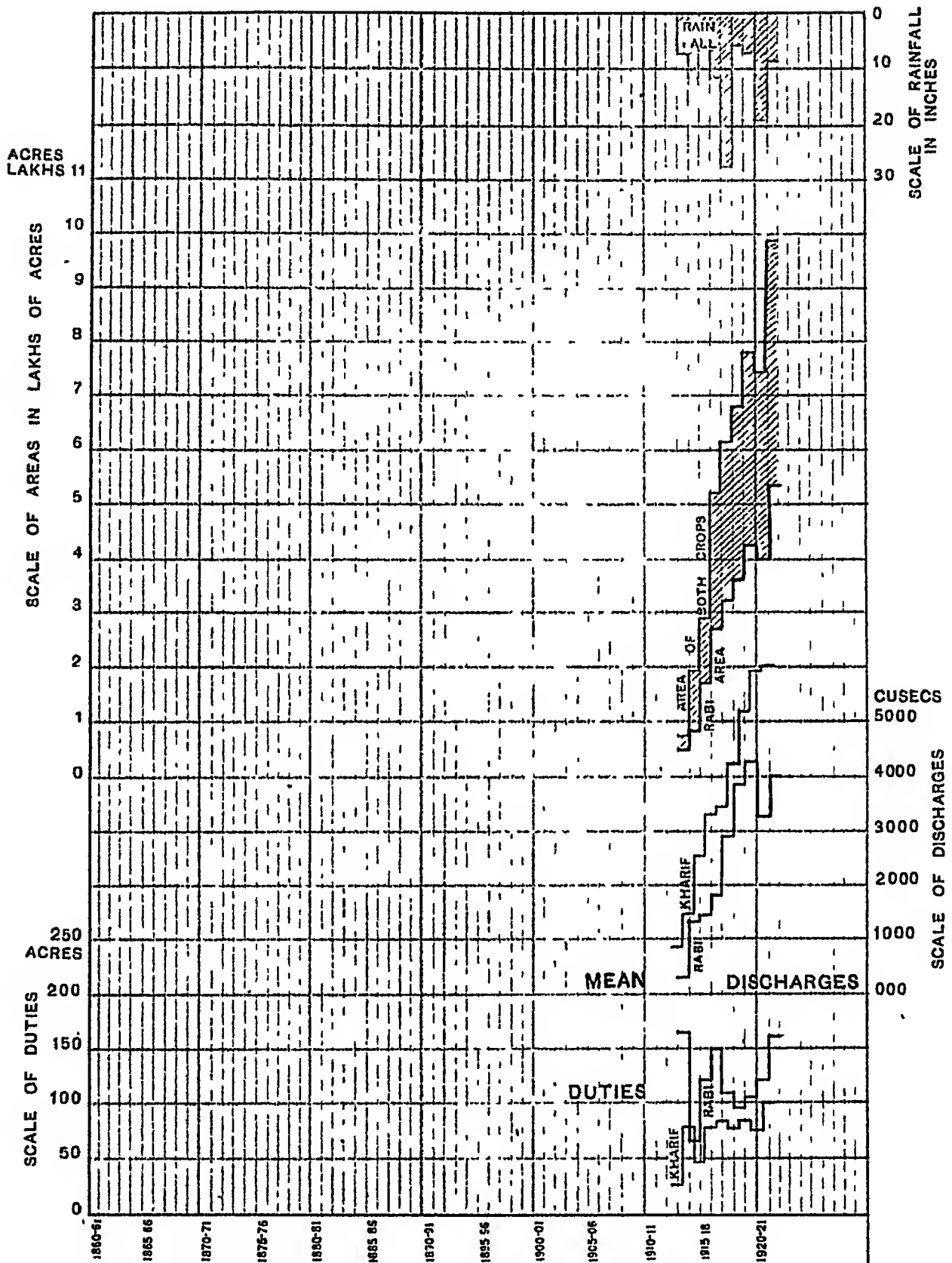
Year.	Khariif.	Rabi.	Total.	As proposed in the project (annual).
	Acres.	Acres.	Acres.	Acres.
1913-14	10,096	53,582	73,678	
1914-15	106,802	82,002	150,204	250,000
1915-16	114,024	168,320	253,204	430,000
1916-17	248,448	266,493	514,936	650,000
1917-18	296,526	325,074	621,600	871,308
1918-19	325,583	352,411	678,004	871,308
1919-20	445,700	423,633	869,332	871,308
1920-21	454,906	397,730	852,638	877,908
1921-22	454,532	538,946	993,478	877,908

6. The gross receipts (direct and indirect) amounted to Rs. 42,91,850 and the working expenses to Rs. 20,00,390, leaving a net revenue of Rs. 22,91,460 or a return of 10.56 on the capital outlay. In the previous year net revenue amounted to Rs. 35,46,473, of which Rs. 7,27,065 were arrears of past years. There were, in addition, (a) heavy remissions necessary for the cotton crop of *khariif* 1921, (b) poor *rabi* of 1920-21 (water-rates for which were

LOWER BARI DOAB CANAL.

WORKING RECORD.

1921-22



N. B.—The intercepts in the red area show the Kharif acreage each year.

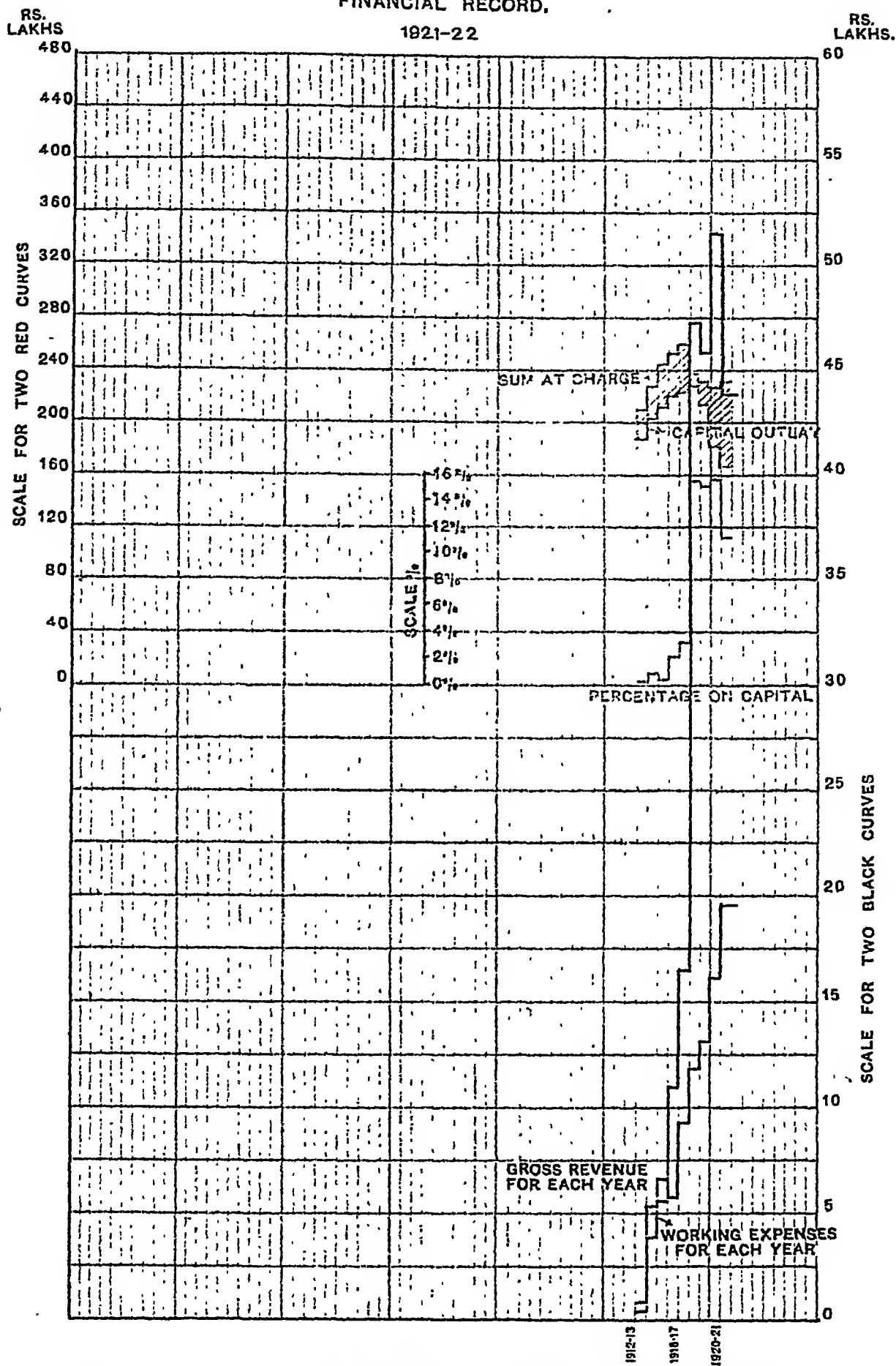
The discharges are measured at canal head and are averages for each crop. but from and after 1921-22 they are mean discharges calculated on total number of days in the season.

The duties are derived from these areas and discharges.

LOWER BARI DOAB CANAL.

FINANCIAL RECORD.

1921-22



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year.

Construction commenced in 1907 and the canal was opened in 1913.

This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

realized during the year) the area assessed being 133,000 acres short and (c) larger remissions under tenancy rules amounting to 22,000 acres, which account for the comparative decrease in net revenue.

7. (a) *Duty*.—The duties on areas irrigated per cusec of mean supply measured at canal head and at distributary heads compare as follows with those of the previous year :—

YEAR.	KHARIF DUTY		RABI DUTY	
	At Canal head less escape.	At Distributary head.	At Canal head less escape.	At Distributary head.
1920-21 ...	77	93	123	173
1921-22 ...	76	99	133	160

(b) The area remitted was :—

	<i>Kharif.</i>	<i>Rabi.</i>	<i>Total.</i>
	<u>Acres.</u>	<u>Acres.</u>	<u>Acres.</u>
(a) Free crops under tenancy rules ...	57,839	80,947	138,786
(b) Failure due to other causes ..	64,141	40,919	105,060
Total	<u>121,980</u>	<u>121,866</u>	<u>243,846</u>

The remissions under (a) were 138,786 acres against 33,737 acres remitted in the previous year. The increase was due to large permanent grants having been made to *ex*-Military men.

The remission under (b) (40,919 acres) was less than half of the area remitted during the previous year, when it was 219,877 acres. This decrease was due to the improved supply received by the Lower Bari Doab Canal resulting in larger matured areas during the *rabi* season. Another contributory cause towards this decrease was the policy adopted of reducing the water-course *chaks* to about 500 acres so as to enable the shareholders to get their turns oftener during the rotational periods.

Other remissions under (b) were due to the usual causes, such as poor soil, bad germination, excessive cultivation, short supply or late sowings.

Cotton was the one *kharif* crop which specially suffered and was very poor.

(c) *Agricultural conditions*.—The year, as a whole, was successful particularly in the *rabi* season which was the highest so far and above the project figures. *Kharif* crops suffered as stated above. In the *kharif* season the cotton crop, as stated above, was, to a large extent, a failure and prices of produce were lower.

(d) *Other interesting matters*.—The canal Main Line was damaged by scour to a marked extent and large sums of money had to be spent on protection of works, controlling surface falls and getting a flatter gradient of 1 in 8,000 in place of the 1 in 6,663 to which the canal was designed and which the soil does not stand. This work will have to be carried on for some time before all works are rendered safe and flatter surface slopes obtained.

Irrigation being fairly well established now there is a growing demand for improved communications, and the work of providing roads and bridges on water-courses should receive more attention.

The question of making ditch minors along some of the larger distributaries and converting the latter into branch canals and stopping direct irrigation was examined, but owing to the disturbance which would be caused to settled conditions and the shortage of water the schemes were abandoned.

Gugera distributary, which had hitherto been partly a *kharif* and partly a perennial channel, has been made a perennial channel in its entire length and head discharge increased from 692 cusecs to 765 cusecs.

A large scheme for the canalizing of the Sukhrawa drainage and incidentally the reclamation of some 13,000 acres of good soil is under consideration.

The steps taken to raise the surface levels in Main Line have made available a fall of 6 feet at Renala, where it is proposed to put up a large hydro-electric power plant to generate about 1,100 kilowatts.

Outside irrigation matters, the Colony work is nearing completion, and at present land on Drakhat Pal conditions is greatly in favour though the new distribution on half resumable conditions, when none other is left, is quite eagerly sought for.

UPPER CHENAB CANAL.

(SUPERINTENDING ENGINEER.—MAJOR W. C. W. MILLER.)

1. The expenditure (direct and indirect) amounted to Rs. 3,22,100, but the recovery of Rs. 61,864 effected from cultivators on account of the cost of water-courses, etc., a credit of Rs. 6,093 under suspense and the receipts on capital account to the extent of Rs. 6,100 reduced it to a net expenditure of Rs. 2,48,043, bringing the total capital invested to date to Rs. 3,56,22,231.

Capital Account—
Kharif 1921
Rabi 1921-22.

The principal work carried out was the construction of the new buildings at Sheikhpura, the Headquarters of the new Sheikhpura Civil District. Of these, the combined rest house for the Buildings and Roads and Irrigation Branches was practically completed, the combined offices about half finished, the Revenue and Telegraph offices almost completed, the subordinates' rest house completed, and the quarters for the two Executive Engineers who are to be stationed there, viz., the Executive Engineers, Sheikhpura Division, Upper Chenab Canal, and Upper Gugera Division, Lower Chenab Canal, taken in hand.

Other important works were :—

- (i) Constructing 17 new minors on the Raya Branch in order to facilitate distribution of canal water on that branch and its distributaries.
- (ii) Constructing water-courses and water-course culverts in Gujranwala, Sheikhpura and Raya Divisions. This essential work, which was greatly delayed pending final settlement of the vexed zonal question, is now well in hand and canal supply is consequently being more equitably distributed and spread over areas which for years did not receive it owing to lack of the necessary water-courses.
- (iii) Constructing one set (4 units) of clerks and draftsmen's quarters at Merala. These were very necessary, as hitherto these men had to live in damp insanitary *kucha* buildings.
- (iv) Constructing quarters for the sub-divisional officer and his staff, Loriki Sub-Division, Raya Division, at Mianwali.
- (v) Constructing 6 Lower Subordinates' quarters in the Raya Division.
- (vi) Constructing 2 Zilladars' quarters in Raya Division.
- (vii) Remodelling and realigning the Head Reach of Gujranwala distributary. Unfortunately this work, which would have been a great boon to the town and city of Gujranwala by putting canal water within easy reach of all, and beautifying the town and city with gardens and lawns, as at Lahore, has had

to be abandoned because of the enormous increase in the price of land brought about by the unwillingness of the land-lords to surrender the small areas of land required from each, thus sacrificing the general welfare to the selfish interests of the few.

2. The expenditure amounted to Rs. 1,64,973 against Rs. 1,36,919 in the previous year and was incurred chiefly on—
Extensions and improvements.

- (i) remodelling the head reach of the Raya Branch, R. D. 0—30,000, in order to take the enhanced supply required by the final orders on the zonal question,
- (ii) construction of seepage drains on Main Line Upper below Merala, in continuation of those constructed in previous years.
- (iii) construction of a Cunette in Sambrial nullah for the drainage of Sambrial Town.
- (iv) completing the construction of Sheikhwan Drain below R. D. 221,000 feet Main Line Lower, referred to in last year's report.

3. The expenditure amounted to Rs. 8,19,169 against Rs. 5,66,297 in the preceding year. The most important items, in addition to the usual annual maintenance and repairs, were :—
Maintenance and repairs.

- (i) Special repairs to the upstream divide groyne nose at Merala and stone filling of the apron damaged by the high flood on 13th August 1921. The old nose which consisted of sand filling encased in a stone shell was replaced by solid stone as the sand filling was liable to be blown out during high floods, as happened on this occasion.
- (ii) Special repairs to the weir at Merala, such as grouting and pointing downstream glacis of bays 5 and 6 repairs to the downstream undersluice floor; making up downstream apron bays 1 to 4; and repairing the downstream weir groyne.
- (iii) Repairs to the downstream end of Dugri No. 1 siphon at R. D. 35,800, Main Line Upper. This siphon has been giving trouble since 1915. Cracks in the downstream face wall and in one of the wing walls developed rather alarmingly this year. It was, therefore, determined to apply remedial measures before the mischief went too far. The unsafe wing wall was dismantled and built to a stronger section; at the same time a system of drain pipes laid in stone ballast was inserted behind the face wall and the wings in order to break the hydraulic gradient. Unfortunately these measures have not proved entirely successful; the wing wall is now quite sound, but cracks continue to develop in the face wall, thus showing that settlement of the outer ends of the reinforced concrete tubes of the siphon still continues. An estimate is now under preparation to cover the cost of supporting the outer ends of the tubes on steel sheet piling—a measure which, it is hoped, will definitely stop the process of sandblowing from under the foundations and thus obviate further danger of settlement.
- (iv) Special repairs to banks of distributaries in the Raya Division. In this Division the soil is of very poor quality, being composed entirely of "kallar," which is a light and friable substance, and as the banks are composed of it they are subject to more wear and tear than similar banks in better soil. Breaches are consequently numerous, aided and abetted by zamindars who indulge in bank cutting freely during the season of keen demand for the much irrigated rice crop, of which nine-tenths of the irrigation on these distributaries consists. A systematic

overhauling of these banks is being undertaken in order to obviate breaches as far as possible.

- (v) Special repairs to the Falls at R. D.'s 71,400 and 321,500, Main Line Lower. The protection in the bed of the canal downstream of both these falls gave trouble during the very high supplies which were run during the *khari* season, and extensive repairs had to be undertaken in order to make the falls secure and prevent the erosion working back to the foundations of the piers.

In addition to the above repairs of a special nature, the increase in the cost of maintenance and repairs during the year is due to the general rise in the price of labour and wages due to the abnormally high prices of food stuffs which prevailed during the year.

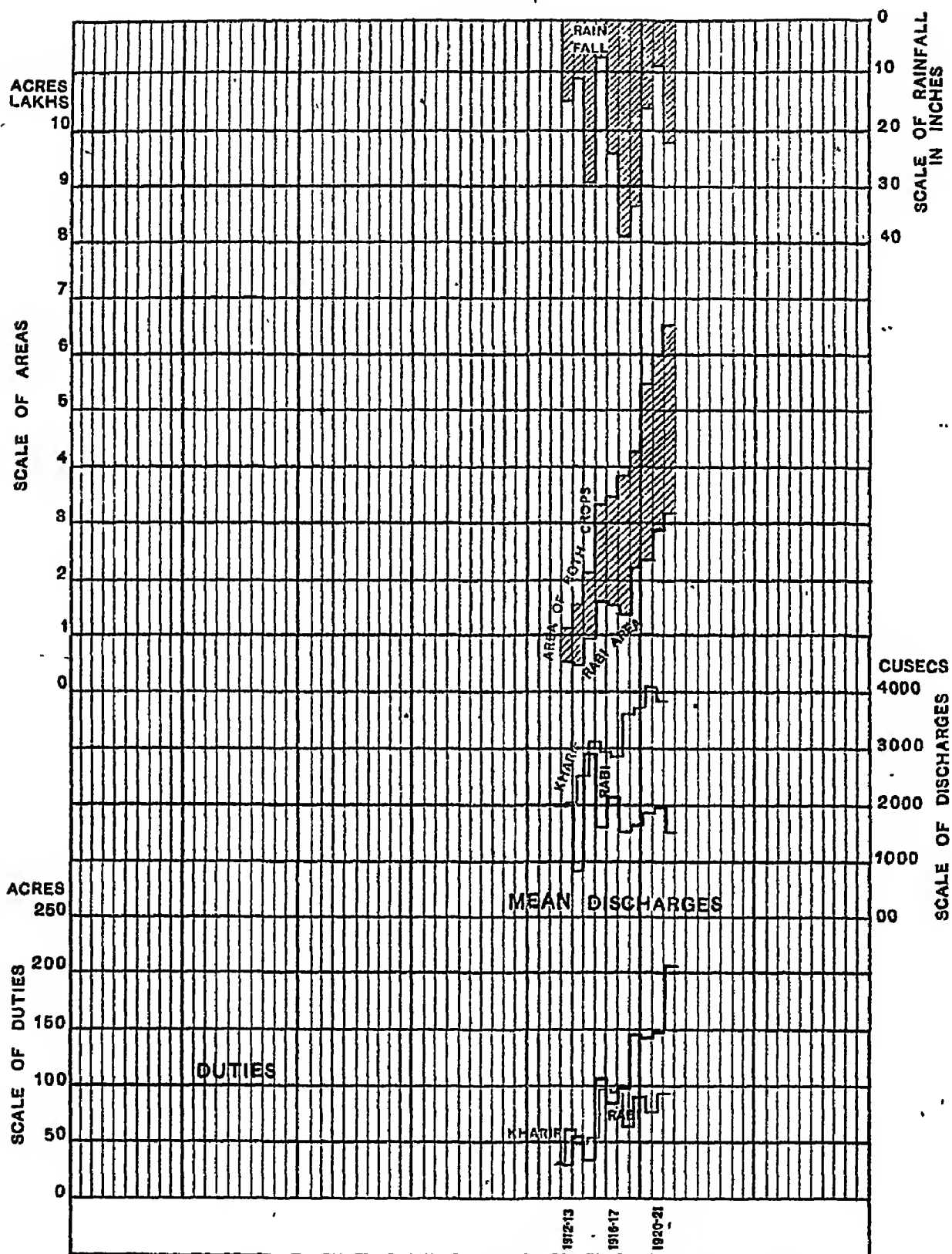
4. This sub-head has not called for any remark hitherto, the charges under it in previous years being small, but in the year under report an item of Rs 60,790 was paid for damage done by water-logging along the Main Line Upper, below Merala, thus bringing the total expenditure to Rs. 61,543 against an average of Rs. 5,555 only in the four previous years. This subject has been referred to in previous reports, and the payment now made was on account of the bill submitted by the Civil Department to cover the damage done to culturable land during the years previous to the institution of remedial measures, *viz.*, the construction of seepage drains along both banks of the canal in the water-logged area. Since the construction of the drains an improvement is visible and areas previously water-logged are again coming under the plough. It is to be hoped that when these drains and other improvements which experience has shown to be necessary are completed, such as deepening and widening the drains and removing the obstructions put into the outfalls by the zamindars, this area will be entirely reclaimed and further claims for compensation obviated.

5. The *khari* season was normal. The monsoon broke in the last week of July and continued almost without intermission till the third week of August, when there was a break, followed by light showers in September. Extensive rice sowings were undertaken and the canal ran to its maximum capacity during the latter half of the season, up to 15th October, when the *khari* channels were closed, except the Raya Branch, which was permitted to run up to 25th October. Fortunately, unlike 1920, *rabi* supplies were also adequate during this period so that all the channels of the Upper Chenab Canal and also the Lower Bari Doab Canal got full indents without the necessity of resorting to rateable reductions as was done in 1920. The extension of the date of closing the Raya Branch was subsequently discovered to have been a mistake as the water was not used for developing the late-sown rice crop, the reason given by the zamindars when petitioning for the extension, but was either allowed to run to waste or else used for preliminary waterings for the ensuing *rabi* crops.

The *rabi* rotational programme of the quintuple canal system was enforced from the 1st October as usual, but a new departure was observed in framing the programme this year. Under the old rules the two old canals, Lower Chenab and Lower Jhelum, received a certain fixed share of the available supply in the two rivers, Chenab and Jhelum, in proportion to their project areas allowing a *rabi* duty of 200; the balance in the two rivers was distributed among the five canals, the Lower Chenab and Lower Jhelum receiving a further share according to the *rabi* areas actually achieved and the three remaining canals, Upper Jhelum, Upper Chenab and Lower Bari Doab, according to their project areas, the duty being taken as 200 in all cases. In the new arrangement the fixed share allotted to the two older canals has been abandoned, and the available supply in the two rivers distributed among the five canals according to the areas actually achieved on the two older canals and the Project areas, on the three new canals, and the *rabi* deltas

UPPER CHENAB CANAL.

WORKING RECORD.
1921-22



N. B.—The intercepts in red area give the Kharif irrigation each year. The discharge are measured at Merala the head of canal and give averages for each crop, but from and after 1921-22 they are mean discharges calculated on total number of days in the season.

The duties are derived from these areas and discharges.

actually attained on each canal. The following table shows the percentages of available supply allotted to each canal according to the old and new arrangements :—

Canal.	Old percentage.	New percentage.
Lower Chenab	52	48
Lower Jhelum	19	17
Upper Jhelum	4	4
Upper Chenab	8	8
Lower Bari Doab	17	23

It will thus be seen that whilst the Upper Jhelum and Upper Chenab, which are in the main feeder channels, remain the same, the Lower Bari Doab gains 6 per cent. by the new arrangement whilst the Lower Chenab and Lower Jhelum lose 4 per cent. and 2 per cent. respectively.

The rotational programme worked satisfactorily the actual river supplies exceeding the minima assumed in the programme.

At Gujranwala, the centre of the irrigated tract, the total rainfall recorded during the *kharij* season was 13.51 inches against 10.20 inches in the previous year, while in the *rabi* season it was 1.57 inches against 2.39 inches in the previous year. The total area irrigated in the two seasons was 655,421 acres, of which 641,982 acres were successfully matured. The percentage of remission was only 2. The total water-rate assessed was Rs. 31,29,875, or Rs. 4.88 per acre.

6. The following table compares the areas irrigated during the year with preceding years and with the Project forecast :—

Area irrigated —
Kharij 1921.
Rabi 1921-22.

Year.	<i>Kharij</i> .	<i>Rabi</i> .	Total.	Project forecast.
	Acres.	Acres.	Acres.	Acres.
1917-18	245,110	137,825	382,935	648,367
1918-19	204,694	222,170	426,864	648,367
1919-20	303,845	238,811	542,656	648,367
1920-21	310,141	291,206	601,347	648,367
1921-22	341,254	314,167	655,421	648,367

The total area irrigated included 612,749 acres in old proprietary villages and 42,672 acres in new colony villages. It will be seen that the Project forecast has now been exceeded and even Mr. Purves's forecast of 725,000 acres in the Completion Report is not very off, whereas Mr. Wood's forecast of 530,000 acres has been left completely behind. The effect of the construction of water-courses during the last two years is plainly visible, and the remodelling of the canal shortly to be undertaken in order to meet the enhanced supplies required by the final zonal orders will further increase the capacity of this canal as an irrigating machine, and probably even a million acres annually when the canal is fully developed is not too much to hope for.

7. The gross revenue (direct and indirect) amounted to Rs. 69,45,910, the working expenses to Rs. 19,70,812, and the net revenue to Rs. 49,75,098 or 13.96 per cent. on the capital outlay. Last year the percentage was 8.09 only—this big increase is mainly due to a credit of about Rs. 5,000, afforded during the year on account of indirect receipts for interest on sale-proceeds of waste lands benefitted by the canal and of Rs. 37,18,000 for the land revenue due or dependent on works. The latter figure relates to this year and the previous years.

Financial results based on collections—

Rabi 1920-21.
Kharif 1921.

8. On the 13th August 1921 the second highest flood on record since the construction of the weir came down the Chenab river. No great damage was done except that the nose of the upstream divide groyne collapsed owing to the interior sand filling being blown out by the big head of water against it. This has now been replaced by a solid stone nose. The system of seepage drains and cunettes to relieve water-logging along Main Line Upper below Merala is proving efficacious, but its working is somewhat hampered by the obstructions put in by zamindars in the nullahs in order to secure flow irrigation during the kharif. This question has been taken up and a scheme for constructing minor channels from the canal to replace the irrigation done from these nullahs is under investigation. The Aik nullah problem still remains unsolved, but as far as the canal-irrigated tract itself is concerned, it has been agreed to construct drainage crossings on the Nokhar Branch and its distributaries, whereby the flooding now occasioned by the overflow from the nullah will be entirely relieved. Water-logging unfortunately continues to spread along this canal. In addition to the reach along the Main Line Upper below Merala, and that near Ohichoki Mallian, Main Line Lower, other areas near Harpoki and at the tail below Mangtanwala are becoming affected. Drains are being projected to relieve all these tracts. The question of working the Sambrial-Merala Railway for timber traffic still remains unsettled.

General remarks

No progress has been made on the Hydro-electric Scheme by the Punjab Hydro-electric and Industry Development Association.

The question of remodelling this canal so as to enable it to take the enhanced supply required by the final zonal orders and by developments on the Lower Bari Doab Canal is in hand, and it is hoped that the work will be started in the cold weather of 1922-23. At the same time the raising of the weir crest at Merala is being considered and it is hoped that the work of raising one bay, at least, will be done during the season.

LOWER CHENAB CANAL.

(SUPERINTENDING ENGINEERS... { EAST CIRCLE—RAI BAHADUR MR. H. P. VARMA
WEST CIRCLE—MR. R. K. NARIMAN.)

1. The expenditure (direct and indirect) amounted to Rs. 1,60,923 which raised the capital outlay to Rs. 3,32,25,707 and which was spent on raising and altering the wire ropeway across the Khanki Weir and remodelling gates of Khanki undersluices.

Capital Account—

Kharif 1921.

Rabi 1921-22.

2. A sum of Rs. 1,55,015 was spent on improving facilities for regulation, distribution and drainage, the following being the more important works carried out:—raising spur E, river Chenab at Khanki, constructing a bridge over inlet at R. D. 55,310-Left Main Line, and a godown in workshop compound, for East Circle; remodelling gates of Khanki undersluices, head regulator of Nasrana distributary and outlets of Teku and Bhangu distributaries; moduling Dhaulaur distributary; and readjusting outlets on Bhangu Branch.

Extensions and improvements.

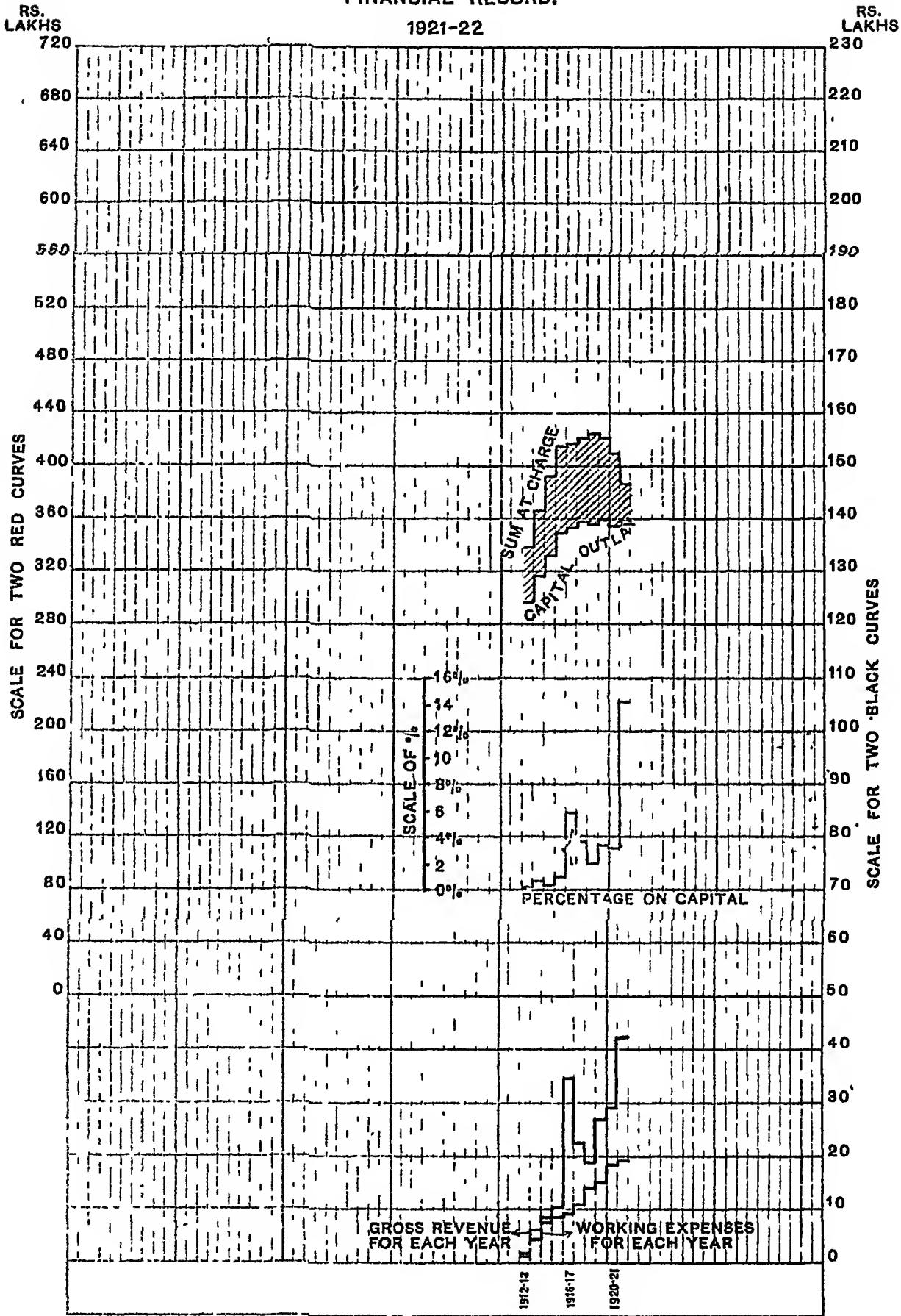
3. The expenditure of Rs. 9,51,882 was incurred on ordinary repairs as well as on special works, such as:—repairs to upstream nose of guide bund, downstream floor of undersluices, berm of divide groyne nose upstream, loose stone berm of bay Nos. 7 and 8 of Khanki Weir, and right retired embankment.

Maintenance and repairs.

UPPER CHENAB CANAL.

FINANCIAL RECORD.

1921-22



N. B.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge.

The intercepts between the black curves give the net income each year.

Construction commenced in 1908 and the canal was opened in 1912.

This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

4. The rainfall was fairly good and favourable for both *kharif* and *rabi* crops. The monsoon broke early and gave good showers. It relieved the situation caused by the previous bad season and helped the growth of green fodder. The canal was closed for seventeen days in the *kharif* season and one day in the *rabi* season. The water supply was, on the whole, satisfactory.

The following table gives the rainfall of the year for *kharif* and *rabi* separately, as compared with the rainfall of previous three years :—

Mean for ...	Lyallpur	Jhang.	Gujranwala.	Sheikhupura.
	Inches.	Inches.	Inches.	Inches.
<i>Kharif</i> ...	9.82	8.86	14.00	8.60
<i>Rabi</i> ...	1.01	1.59	1.48	1.62
Total ...	10.90	10.45	15.48	9.62
1918-19 ...	6.67	7.92	11.08	
1919-20 ...	11.26	10.49	19.57	
1920-21 ...	5.11	5.85	8.98	

5. The following table compares the irrigation with the average of the two previous triennia and with the figures for 1920-21 :—

Crop.	AVERAGE OF THE 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>Kharif</i> ..	698,281	826,952	884,149	854,449
<i>Rabi</i> ...	1,584,413	1,569,845	1,561,827	1,706,483
Total ...	2,282,644	2,396,800	2,445,976	2,560,932

The area irrigated during the year under review as shown in the above statement was a record one. The crops were good, particularly the *rabi* crops. The principal areas were—

	Acres.
Sugarcane	69,532
Cotton	226,922
Maize	105,174
Wheat	1,037,495
Toria and Sarson	300,966
Gram	66,941

During the year 2,052,947 acres were matured in the Colony area and 491,107 acres in old established estates.

The *kharif* duty was 99 acres and *rabi* duty 212 acres, as compared with 88 and 206 acres, respectively, in the previous year.

Remissions.—In *kharif* water-rates on 9,277 acres were remitted. Of this area 6,462 acres were damaged by insects and blights, 819 acres germinated badly and the balance was remitted on account of various causes. The remissions granted during *rabi* amounted to 7,601 acres; of these 1,525 acres failed owing to bad germination and 1,419 acres had poor crops because of bad soil.

6. The net revenue amounted to Rs. 1,39,40,894 or a return of 41.96 per cent. on an outlay of Rs. 3,32,25,707 as against 44.87 per cent. in the previous year.

Financial results based on collections—
Kharif 1921.
Rabi 1921-22.

7. The yield of American cotton was not very good. The irrigators attribute it to deterioration of seed, but the Agricultural Department was of opinion that the crop would have been better if it had been given late waterings in October and November. They consider that owing to the high prices for food stuff the irrigators used part of the water during these months for sowing wheat, instead of giving it to their cotton. The low price and poor yield of cotton has reduced its popularity with the irrigators.

General.

An experiment for supply of water on the Delta System was started on the Kot distributary from *rabi* 1921-22, but it is too early to say how it has worked.

The deterioration of the soil due to rise of spring level received particular attention. A scheme for irrigating the lowlying area on the Chiniot distributary by lifting water from wells hydro-electrically was worked out in the rough, but it was found that the existing conditions did not warrant the expenditure.

Similar investigations for the area on the Udhoki distributary are in hand.

The proposals to restrict irrigation from the Hafizabad, Ohhanni and Kot Nikka distributaries to the *kharif* season only have been investigated and are under consideration.

The extension of Kalerwala Drain to relieve the swamps near Paleh, Kot John Bux, Chakanwali, etc., was also investigated and sanctioned.

The effect of these and previous improvements was noticeable, as several villages, e.g., Ohak Chatta, Muradian, etc., which had stopped taking canal water and had complained of damage, have been clamouring for increased and improved irrigation facilities.

The problem of exclusion of silt, and its equitable distribution between channels received attention. The new undersluice gates at Khanki considerably helped regulation, but the canal closures due to silt movements or floods are still too frequent for good irrigation and proposals for altering the gates of the Regulator have been sanctioned.

In order to make the silt in canal water serve a useful purpose, several silting tanks were worked during December and are reported to have deposited about 4,000,000 cubic feet of silt. These deposits have not only reduced the silt trouble lower down, but have also strengthened the banks and rendered them safe.

In spite of high prices and scarcity labour is difficult to get and keep. During the year some was imported from the Hoshiarpur District.

UPPER JHELUM CANAL.

(SUPERINTENDING ENGINEER—MR C. QUINN YOUNG.)

1. The total expenditure (direct and indirect) amounted to Rs. 54,250, raising the total capital outlay to date to Rs. 4,45,61,917. This does not include Rs. 31,969 recovered from cultivators on account of the cost of water-courses and a credit of Rs. 31,083 received under suspense and receipts on Capital Account which was also spent during the year.
- Capital Account—
Kharif 1921.
Rabi 1921-22.

The principal works carried out were—sinking a well in Assistant Engineer's compound at Aurangabad; excavation of certain minors in Phalia Division; constructing outlets on Mianwal and Phalia Distributaries, and village road bridges at R. D. 11,390 Aki Minor, water-courses, boundary road culverts and 3 subordinates' quarters in Gujrat Division; demarcating drainages, Phalia Division; and manufacturing bricks departmentally in the Phalia Division.

2. Expenditure amounted to Rs. 1,27,479 against Rs. 75,601 in the previous year. The works carried out were small and call for no special mention.
- Extensions and improvements.*

3. The expenditure incurred amounted to Rs. 6,89,214 compared with Rs. 4,06,710 in 1920-21. In addition to ordinary repairs, special repairs were done to the Jaba and Suketar No. 2 level crossings, and the Shadiwal (Bhimber) weir damaged by the monsoon floods of August.
- Maintenance and repairs.*

4. The following statement shows the rainfall registered during the year at selected stations, as compared with the averages of past years :—
- Nature of season and state of Demand and Supply—
Kharif 1921.
Rabi 1921-22.

Station	Division	RAINFALL FOR THE YEAR 1921-22.			Average for past 7 years.
		<i>Kharif.</i>	<i>Rabi.</i>	Total.	
		Inches.	Inches.	Inches.	Inches.
Mangla ...	Jhelum ...	23.08	2.11	25.19	30.07
Wassu ...	Phalia ...	21.02	0.44	21.46	12.40
Bysal ...	Phalia ...	20.53	0.27	20.80	10.55
Pauranwala ...	Gujrat ...	20.02	1.13	21.15	13.03
Karariwala ...	Gujrat ...	24.28	1.18	25.46	12.35

The rainfall was greater than that of the previous year, the supplies in the Jhelum river were adequate, and the demands on all the three canals, Upper Jhelum, Lower Jhelum, and Lower Chenab, were adequately met, except for the period 15th November to 15th December.

This is the sixth year during which the waters of the Jhelum and Chenab rivers have had to be shared between the five linked canals, namely, the Upper and Lower Jhelum, the Upper and Lower Chenab, and the Lower Bari Doab Canals: and the policy now adopted is to base the forecasts of supplies, to be given to these canals, on the lowest discharges which the two rivers have carried during the *rabi* months; and this method, so far, has proved the most satisfactory means of forecasting and proportioning the supplies of the rivers.

Area irrigated—
Kharif 1921.
Rabi 1921-22.

5. The figures below compare the areas irrigated and assessed with those of preceding years and with the project forecast :—

YEARS.	AREA IRRIGATED.			AREA ASSESSED			Project forecast.
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
1919-20	180,851	168,000	298,857	129,012	167,981	295,993	348,000
1920-21	198,290	208,899	345,189	134,035	204,081	338,119	348,000
1921-22	162,032	196,535	3,58,567	159,897	192,895	351,92	348,000

The results showed an increase of 4.13 per cent. over the previous year's figures and the project areas achieved and surpassed. The hunger for irrigation is now established on the Upper Jhelum Canal; it will continue and the probabilities are that it will always be appeased, as the supplies are adequate for the demand. There is an area of 42,507 acres of allotted colony land, the whole of which is irrigated from the Gujrat Branch and all of which is under cultivation to the full extent proposed. These lands receive a copious water supply at present. The Forest Department have commenced operations on a *shisham* plantation irrigated from the Bhallowal distributary, Gujrat Branch. The ultimate area under forests is to be 6,674 acres.

6. The gross receipts amounted to Rs. 21,62,805 and the working expenses to Rs. 17,36,809, giving a net revenue of Rs. 4,25,996 or 0.95 per cent. on the capital outlay. This shows an improvement although the working expenses were very large due to special repairs and extensions done during the year to the three level crossings in the upper reach of the canal. These works suffered damage from the heavy floods of August 1921, and it has also been necessary to strengthen them against bed scour of the torrents which they carry across the canal. Year by year these torrents have been lowering their beds, and the design of the works have had to be modified to suit the new conditions.

A further source of heavy expenditure was the Bhimber Weir at the tail of the canal. A flood in August of much greater volume than was ever anticipated did some damage. This was repaired, and further measures were sanctioned for strengthening the structure during the next official year.

Considerable sums of money were spent in combating the water-logging in the lower reaches of the canal by means of seepage and surface drains, which have proved very satisfactory.

The advance in irrigation has been very welcome, and the area now irrigated annually is somewhat in advance of the figures anticipated in the project. The irrigation is now established, and there should be no retrogression; years of heavy rainfall might result in slightly lesser areas of Kharif but, on the other hand, appreciation of the value of the higher class crops, such as rice, cotton, sugarcane and maize, is increasing, and these crops should gradually replace those purely, and at present largely, grown for fodder.

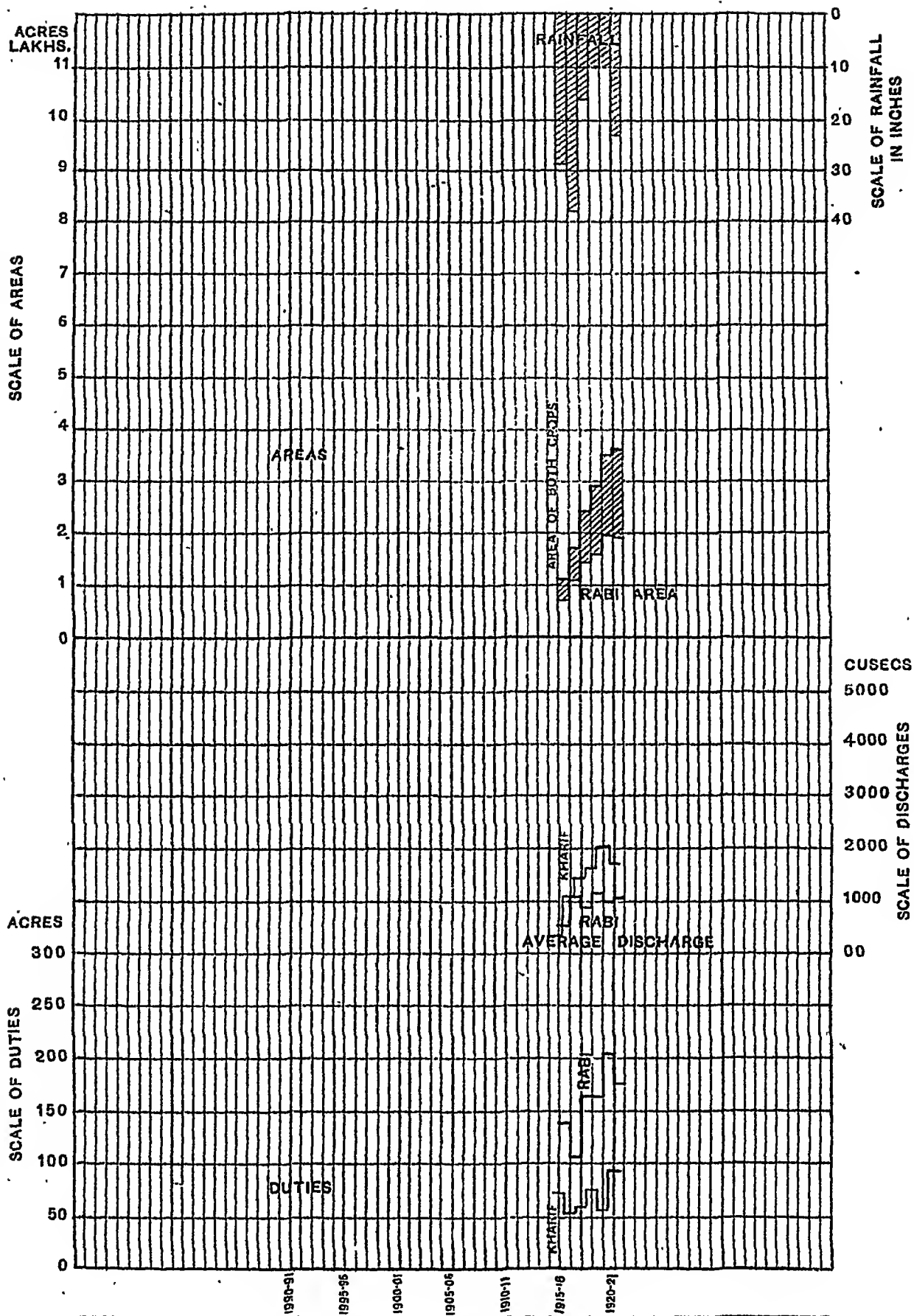
Last year it was pointed out that the two Suketars and the Jaba level crossings were weak as regards their weirs. These suffered in the heavy floods of July and August. The Jaba and Suketar No. 2 have been repaired and considerably strengthened. An estimate amounting to Rs. 2.50 lakhs for strengthening Suketar No. 1 has been sanctioned and work will be completed during the winter of 1922-23. All the numerous syphons and culverts which pass drainages across the canal were very severely tested by frequent and heavy floods in July and August; and all did the duty required of them quite efficiently.

It is regretted that water-logging to the right of the canal is spreading but as the country near the canal slopes rapidly, and there are many drainage

UPPER JHELM CANAL

WORKING RECORD.

1921-22



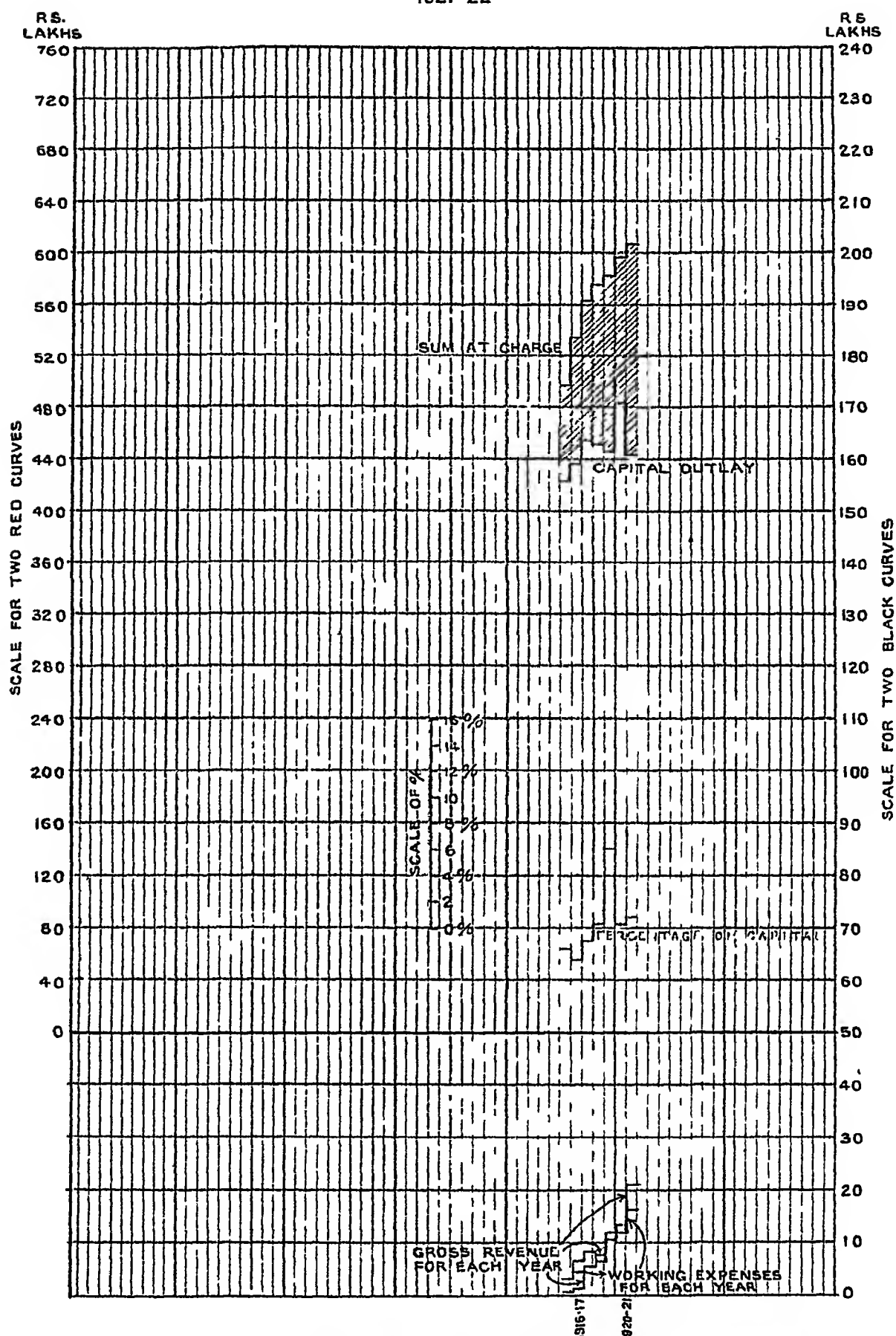
N. B.—The intercepts in the red area show the kharif acreage each year.

The discharges are measured at canal head and are averages for each crop, but from and after 1921-22 they are mean discharges calculated on total number of days in the season.

The duties are derived from these areas and discharges.

UPPER JHELUM CANAL FINANCIAL RECORD

1921-22



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year.

Construction commenced in 1907 and the canal was opened in 1915

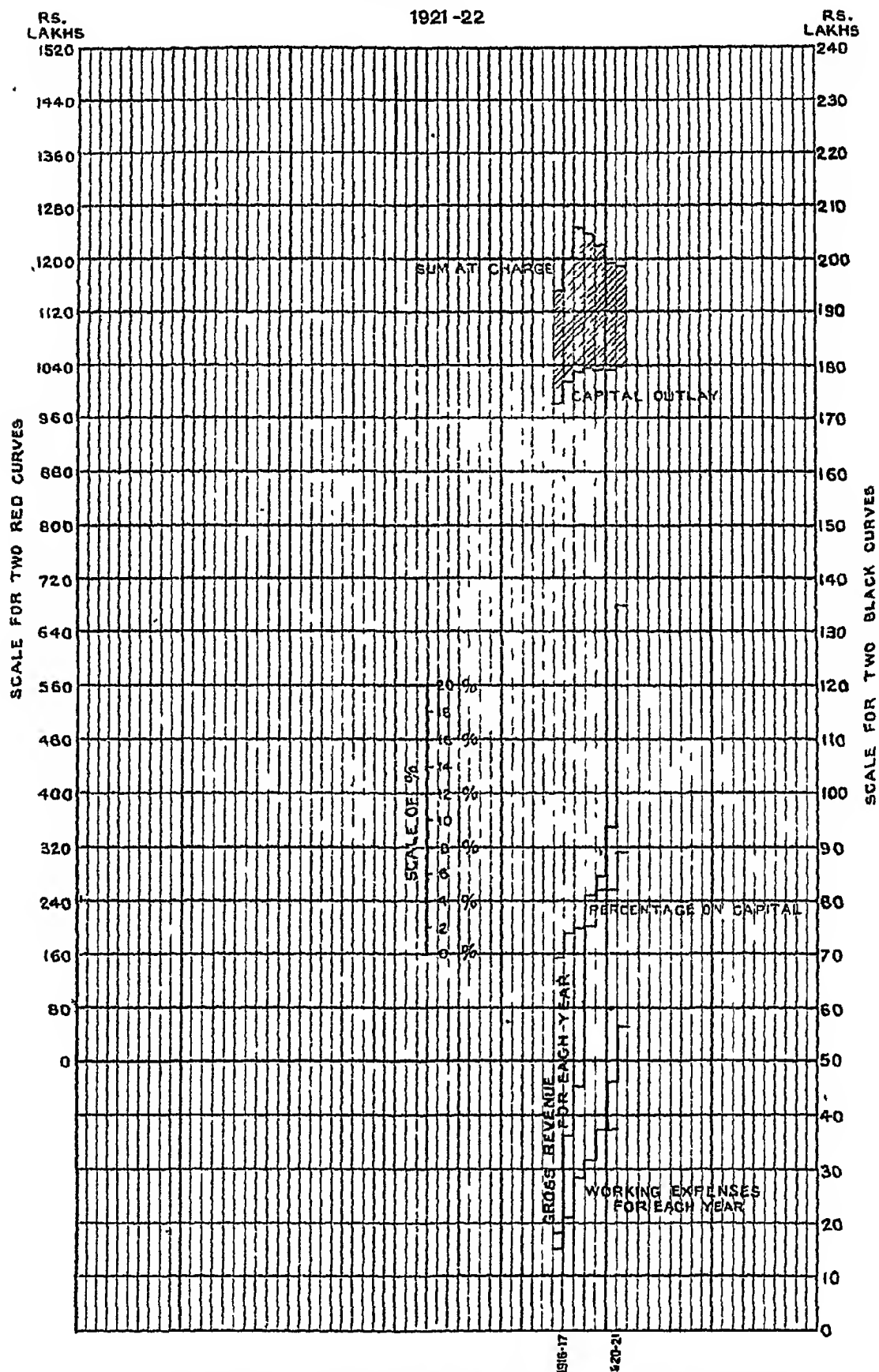
This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

Photo, Zinco January, 1923.—No. 5761 6 510

TRIPLE CANAL PROJECT

UPPER JHELMUM, UPPER CHENAB AND LOWER BARI DOAB CANALS COMBINED

FINANCIAL RECORD



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year.

Name of Canal.	Construction commenced in.	Canal was opened in.
Upper Jhelum Canal	1905	1915
Upper Chenab Canal	1905	1912
Lower Bari Doab Canal	1907	1913

from the Pabbis which eventually reach either the Jhelum or Chenab River or spread out away from the canal, it is not a difficult matter to cope with this evil of water-logging. The method adopted is to intersect the affected areas by surface drains and drop these into one or other of the natural drainages. Wherever adopted this method has proved most satisfactory in drying the areas they serve.

LOWER JHELUM CANAL.

(SUPERINTENDING ENGINEER—MR. J. P. COOK.)

1. The expenditure (direct and indirect) amounted to Rs. 6,08,236 which brought the total outlay to the end of the year to Rs. 1,79,38,712.
- Capital Account—
Kharif 1921
Rabi 1921-22.

The expenditure was incurred chiefly on constructing a rafting bay at Rasul, remodelling of the main line Rattokala distributary and of the Southern, Northern and Sulki Branches with their distributaries; constructing a block of junior clerks' quarters, 2 Upper Subordinates' quarters, Compounder's quarters at Shabjiwana and a telegraph office at Hadda.

2. Expenditure amounting to Rs. 2,24,010 was incurred chiefly on strengthening the weir crest, bays 2 to 8; Bell's bund on right flank of the weir, raising upstream divide groyne of the weir; obtaining and erecting 1 Venturi Meter and 10 Kent "O" Modules for the Rurala distributary; remodelling Mills at R. D. 64,00 feet, Northern Branch, and improving the Western Station Canal at R. D. 249,299—260,903 feet.
- Extensions and Improvements

3. Expenditure to the extent of Rs. 3,22,547 was incurred on the annual maintenance of channels and on special repairs to the following works:—left T spur downstream of the weir; downstream groyne and Bell's bund at Rasul; foot-bridge at R. D. 17,000, Main Line; Main line banks; constructing 3 inlets near Ala and berm cutting Chenab escape.
- Maintenance and repairs.

4. The following table compares the rainfall with that of the previous 3 years:—
- Nature of season and state of demand and supply—
Kharif 1921
Rabi 1921-22.

District.	Season.	YEAR.			
		1918-19.	1919-20.	1920-21.	1921-22.
		Inches.	Inches.	Inches.	Inches.
Lahpur ...	Kharif ...	5.38	9.50	6.30	18.33
	Rabi ..	2.30	3.08	0.16	3.43
	Total ..	7.68	12.58	6.46	21.76
Jhang ...	Kharif ..	5.16	7.76	9.36	18.76
	Rabi ...	2.47	2.65	0.23	1.62
	Total ...	7.63	10.41	9.59	20.38

There was little or no rain till July. In that and the following month the rainfall was above average. In September a few falls of rain facilitated ploughing. October and November were almost rainless, but rain fell in January and greatly benefitted the crops. On account of the excessive rain-

fall, the cotton crop suffered and in certain areas quarter remissions had to be given. On the other hand the *rabi* was above average both in quantity and quality.

The river continued abnormally low during the early months of the year, but the supply of water during the *kharif* season was ample. During the *rabi* season rotational turns had to be resorted to but to a lesser extent than usual.

The Canal was closed at its head for 24 days during the *kharif* and for 16 days during the *rabi* season. Except for a six days' closure on account of a breach in the Main Line, these closures were due to there being no demand for canal water.

The total area remitted was 4,873 acres (*kharif* 3,359 and *rabi* 1,514 acres) including 1,449 acres (*kharif* 1,041 acres and *rabi* 408) under the tenancy rules. In the previous year an area of 13,065 acres was remitted which included 2,178 acres under tenancy rules.

Area irrigated—
Kharif 1921.
Rabi 1921-22.

5. The following table compares the area irrigated and assessed :—

SEASONS.				AVERAGE OF THE THREE YEARS ENDING		AREA IRRIGATED DURING	
				1917-18.	1920-21	1920-21.	1921-22.
				Acres.	Acres.	Acres.	Acres.
<i>Kharif</i>	...	...	...	229,575	269,557	273,000	289,700
<i>Rabi</i>	...	...	...	571,994	530,915	550,021	582,515
Total				801,469	800,472	823,021	872,215

The increase in the area irrigated was due chiefly to the remodelling of channels.

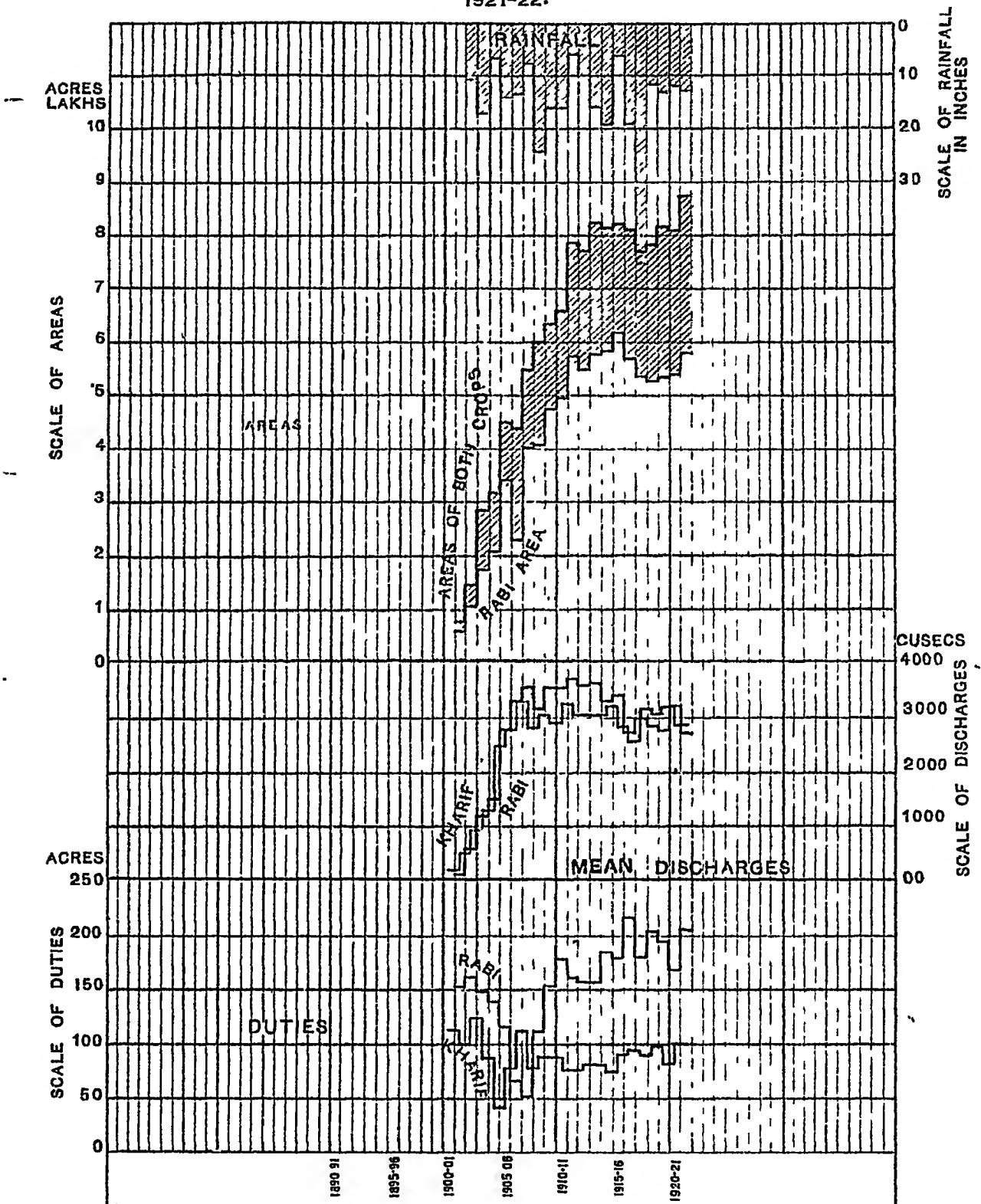
6. The gross receipts (direct and indirect) amounted to Rs. 44,79,827 and the working expenses to Rs. 14,85,599 leaving a revenue amounting to Rs. 29,94,228. The return was 16.72 per cent. on the total capital outlay as against 19.17 in the previous year.

The financial results for the year compare as follows with the averages of the preceding triennium :—

Items.				Average of the triennium ending 1920-21.	1921-22.
<i>Direct Receipts.</i>				Rs.	Rs.
Occupiers' rates	...	...	...	27,09,367	27,83,841
Miscellaneous receipts	...	...	...	80,815	94,676
Total Direct Receipts				27,90,182	28,78,517
Total Indirect Receipts				15,27,276	15,91,726
Total Direct and Indirect				43,17,458	44,70,243
Charge to Revenue	...	...	...	9,77,559	14,62,960
Net Revenue	...	...	...	33,39,899	30,07,883
Percentage on Capital	...	...	...	19.27	16.77
Net Revenue less interest	...	...	...	₹0,00,599	23,90,910

LOWER JHELM CANAL.

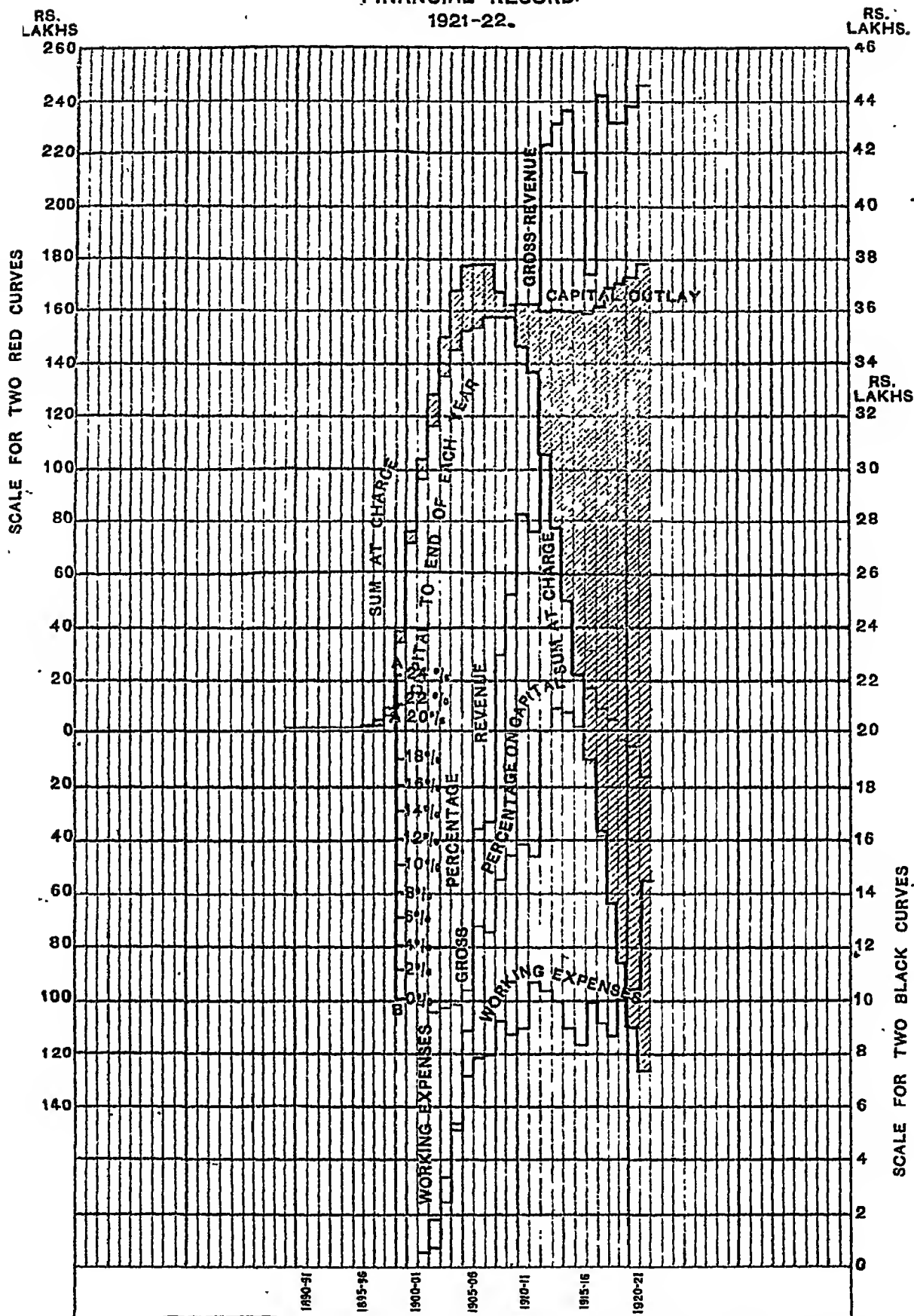
WORKING RECORD.
1921-22.



N.B.—The intercepts in red area give the Kharif irrigation each year. The discharges are measured at mile 14 of the main canal and give averages for each crop, but from and after 1921-22 they are mean discharges calculated on total number of days in the season.
The duties are derived from these areas and discharges.

LOWER JHELM CANAL.

FINANCIAL RECORD.
1921-22.



N.B.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge.

The intercepts in the blue area give the accumulated profits.

The scheme was commenced in earnest in 1898-99 and opened in 1901. Until 1905-06 the canal did not pay any interest on its capital cost this being due to free remissions of water rates on new irrigation.

7. (a) The agricultural and other conditions of the year have been described in paragraph 4 of this report.
General remarks.

(b) A very heavy flood passed Rasul on 13th August 1921. The gauge downstream of undersluices rose to 719.0 and the discharge was calculated to be about 579,000 cusecs. This was the biggest flood since the construction of the Canal.

UPPER SUTLEJ INUNDATION CANALS.

(SUPERINTENDING ENGINEER --RAI BAHADUR LALA WAZIR CHAND CHOPRA.)

Capital Accounts—
Kharif 1921.
Rabi 1921-22.

1. There was a credit to this account of Rs. 1,424 due to stock transactions.

2. An expenditure of Rs. 2,046 was incurred on works of minor importance.
Extensions and improvements.

3. A sum of Rs. 3,27,032 against Rs. 2,15,148 in the preceding year was spent. In addition to the ordinary annual maintenance and repairs and silt clearance, some special repairs urgently needed for the efficiency of the Canals were carried out.
Maintenance and repairs.

4. The river behaved in an unsatisfactory way and the rainfall was much below the average. However, by careful watching and judicious distribution, the supply available was utilized to the best advantage.
Nature of seasons and state of demands and supply—
Kharif 1921.
Rabi 1921-22.

5. The following table compares the irrigation of the year with that of the year 1920-21 and the averages of the two previous triennia :—
Area irrigated—
Kharif 1921.
Rabi 1921-22.

CROP.	AVERAGE FOR 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
Kharif	158,882	172,818	173,619	170,584
Rabi	182,369	136,590	152,358	196,366
Total	341,251	309,408	326,477	366,950

The area assessed was 364,368 acres as compared with 311,451 acres in the previous year. The area remitted for failure of crops was 2,592 acres against 12,026 acres in the preceding year.

6. The gross revenue from all sources amounted to Rs. 7,78,591 and the working expenses to Rs. 691,352 leaving a net revenue of Rs. 87,239, or a return of 4.76 on the Capital Outlay. In the previous year the figures of net revenue and the percentage were Rs. 2,86,356 and Rs. 15.64 respectively. The decrease was due to an increase under working expenses.
Financial results based on collection—
Rabi 1920-21.
Kharif 1921.

7. The following table shows the date of opening and closing of the canals, together with the corresponding dates of the previous year :—

General remarks	CANALS.	DATE OF OPENING		DATE OF CLOSING.		NUMBER OF DAYS THE CANAL WAS IN FLOW.	
		1920	1921.	1920.	1921.	1920.	1921.
	Katora	27th May 1920.	20th May 1921.	7th October 1920.	10th October 1921.	184	142
	Khanwah	Ditto	19th May 1921.	13th October 1920.	14th October 1921.	159	149
	Upper Sohag	3rd May 1920	17th May 1921.	30th October 1920.	6th September 1921.	182	152
	Lower Sohag	26th May 1920.	15th May 1921.	14th October 1920.	25th October 1921.	142	164

These canals will ultimately be absorbed in the Sutlej Valley Scheme the project for which has been sanctioned by the Secretary of State and on which work has commenced.

SIDHNAI CANAL, INCLUDING KORANGA, FAZILSHAH AND ABDUL HAKIM SUBSIDIARY CANALS.

(SUPERINTENDING ENGINEER—MR. H. F. ASHTON.)

1. The account for the year shows a credit balance of Rs. 2,715. A sum of Rs. 1,787 was expended mainly on constructing a Telegraph Office at Rangho regulator and the suspense account was credited with Rs. 4,502 on account of stock transactions.

Capital Account —
Kharif 1921.
Rabi 1921-22

2 The expenditure amounted to Rs. 18,914 against Rs. 17,109 in the preceding year and was incurred mainly on providing needles and kurries for regulators on the Sidhnai Canal ; brick pitching below fall at R. D. 9,500, Venoi distributary ; constructing fail cluster and outlets on minor No. 2, Hittar distributary ; re-modelling outlets on Sher Singh Minor of Rawan distributary and on Makhdum Rashid distributary ; improving minor No. 8 of Makhdum Rashid distributary ; alteration to fall in Bagirpur minor of Fazilshah canal ; and providing masonry outlets for minor No. 7 of the Abdul Hakim Canal.

Extensions and improvements.

3. The expenditure amounted to Rs. 89,496 against Rs. 69,651 in the preceding year. In addition to the usual maintenance of channels and buildings, expenditure was incurred on :—providing 500 needles for special repairs to downstream talus and to upstream apron and protection to foundation of divide wall upstream of the Sidhnai Dam ; strengthening banks of Chawan distributary, Mungawala distributary, and its minor No. 5, Bhaini minor and minor 11 of Rawan distributary and minor No. 4 of Kukarhatta distributary.

Maintenance and repairs.

4. The rainfall was 4.11 inches during *kharif* and 2.09 inches during *rabi* as compared with 7.14 inches and nil, respectively, for the preceding year, and average of 5.14 inches and 1.36 inches, respectively, for the last 58 years.

Nature of season and state of demand and supply—
Kharif 1921.
Rabi 1921-22.

Water did not arrive at the head of the Sidhnai Canal till the end of July and as the rainfall during July and August was below normal the *kharif* season was a poor one. The area irrigated was very much below normal and consisted of crops, such as *bari*, *juar*, etc. There was great scarcity of fodder in the early part of the *kharif* season and great mortality among cattle. Water supply in the river was good during the latter part thereof and early part of *rabi* and a very heavy *rabi* crop was put down which was greatly benefitted by the rainfall which was above normal. On the whole, canal supplies were above average during *rabi* and outturn of *rabi* crops was slightly above normal.

5. The following table compares the irrigation effected on the whole system with the figures of the year 1920-21 and of the averages of the previous two triennia :—

Area irrigated— Kharif 1921, Rabi 1921-22,	CnOr.	AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
		1917-18	1920-21.	1920-21.	1921-22.
		Acrea.	Acrea.	Acrea.	Acrea.
Kharif	121,380	131,216	132,688	86,767
Rabi	174,334	109,847	77,318	157,286
Total	...	295,716	241,063	210,006	244,053

The failed area in *kharif* amounted to 23,732 acres or 30·81 per cent. of the total area irrigated against 41·47 per cent. of the preceding year and in *rabi* to 24,076 acres or 15·30 per cent. against 54·93 per cent. in the preceding year.

The total areas irrigated and matured were in excess of those of the preceding year.

6. The gross income from all sources amounted to Rs. 2,70,023 against Rs. 4,01,251 in the preceding year, and working expenses to Rs. 2,03,736 against Rs. 1,65,950 in 1920-21. The net income was, therefore, Rs. 66,287 or 4·98 per cent. on the capital outlay, against Rs. 2,35,301 or 17·65 per cent. during the preceding year. The decrease was due to an increase of some Rs. 38,000 under working expenses owing to special repairs carried out during the year and a shortage of about 80,000 acres in the area assessed during the crops for which realizations were made during the year.

7. No works of any magnitude are contemplated, but command must be restored in certain channels and this will involve certain remodellings. The old type of outlets are being gradually replaced by the standing wave flume type which is eminently suitable for this type of canal.

INDUS INUNDATION CANALS.

(SUPERINTENDING ENGINEER—MR. H. F. ASHTON.)

1. The Capital Account was credited with Rs. 1,656.

2. A sum of Rs. 1,57,410 was spent as compared with Rs. 30,746 incurred in the preceding year. The following were the more important works carried out :— constructing a new head reach for the Manka Canal ; proposed Manka groyne below Lundwala head ; making dams and closing Kharakwala creek offtake ; extending Dhau Sikhani flood embankment from the existing Dhau Sikhani to new head, Manka Canal ; extension of Hairo groyne across a creek ; constructing flood embankment 1921 ; digging a new head for Chibri Canal and constructing the Dhundi Kutab groyne, 1922, below the offtake of Dhundi Kutab Canal.

3. The expenditure amounted to Rs. 2,53,935 against Rs. 1,62,695 in the previous year. In addition to the ordinary maintenance and repairs, silt clearance of channels, raising and strengthening of certain flood embankments, closing breaches caused by hill torrents and other miscellaneous works were carried out.

4. The average rainfall during *kharif* and *rabi* was 5·55 and 1·88 inches against 2·26 inches and 0·11 inches, respectively, of the preceding year and averages of 3·99 inches and 1·5 inches for the last 26 years,

The river gave sufficient supplies to enable the various canals to be opened at the usual time as will appear from the following statement of opening and closing of the canals :—

Name of canal.	DATES OF		Number of days canal was in flow.
	Opening.	Closing.	
Massuwah	19th May 1921 ...	24th Sept e m b e r 1921.	121
Fazalwah	20th May 1921 ...	25th Sept e m b e r 1921.	126
Manka	8th May 1921 ...	24th Sept e m b e r 1921.	136
Shoria	20th May 1921 ...	22nd October 1921...	148 ..
Dhingana	7th May 1921 ...	17th Nov e m b e r 1921.	234
Chibri	8th May 1921 ...	30th Sep t e m b e r 1921.	145
Sahiban	6th May 1921 ...	30th Sept e m b e r 1921.	147
Gannun	14th May 1921...	1st October 1921 ...	146
	21st March 1922	31st March 1922 ...	
Nur Dhundi	1st April 1921 ...	31st March 1922 ..	359
Dhundi Kutab	1st April 1921 ...	31st March 1922 ...	348
Kadra	11th May 1921 ...	12th No v e m b e r 1921.	185

Later, however, the supply fell to a very low level resulting in loss in irrigation. At the end of July 1921 a very high flood came down the river and this added to by the hill torrents, which also came down in force, caused heavy damage to canals and crops. This flood equalled in some places, and exceeded in others, the maximum high flood of 1878. The Dhau Sikhani flood embankment was overtopped and breached, the river spill water passed down the district from 6 miles above Kharakwala to Mithankote. The Talai embankment was also breached. The Nur Dhundi and Dhundi Kutab Canals having favourable heads continued in flow with good supplies throughout the cold weather. The *kharif* crops, where not damaged by floods, were normal and the Dhundi Estate had an excellent harvest.

5. The following table compares the area irrigated during the year with the averages of the previous two triennia and the figures of 1920-21 :—

CROP.	AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>Kharif</i>	109,745	99,959	161,198	149,265
<i>Rabi</i>	67,412	55,162	88,204	77,705
Total	177,157	155,121	249,402	226,970

The decrease in *kharif* area is due to low river during May and June and to abnormal floods both from river and hill torrents at the end of July.

The preliminary waterings for the *rabi* crops were less than usual on account of the monsoon floods, and this accounts for the decrease under the area irrigated in that season.

The total area remitted amounted to 54,103 acres during *kharif* and 15,108 acres during *rabi* and is attributed mostly to bad soil and flooding.

The percentages of failure were 36.20 and 19.4 for *kharif* and *rabi* against 38.4 and 31.4 in the preceding year.

6. The total income from all sources was Rs. 6,28,998 against Rs. 6,26,379 and the total expenditure under all heads amounted to Rs. 7,82,173 against Rs. 3,69,222 in the preceding year, resulting in a deficit of Rs. 1,53,175, a loss of 5.15 per cent. on the capital outlay against a profit of Rs. 2,57,157 or 8.64 per cent. in the preceding year.

Financial results based on collections—
Rabi 1920-21.
Kharif 1921.

The uncollected balance of assessment of occupiers' rates was Rs. 53,083 against Rs. 7,261 in the preceding year.

7. The year under review was a disastrous one for these canals. The river was very low during the early months of the flow season and very high during the end of July and beginning of August. Extensive repairs had to be carried out and proposals worked out for protection of existing embankments by groynes.

General remarks.

The Sori Lund torrent came down in force and diverted the main stream at Kharakwala, thereby rendering the completion of the new head reach of the Manka Canal unnecessary. A groyne instead of the new head reach was sanctioned but this could not be completed as owing to river changes at the heads of the Kharakwala creek, the attempts to close the creek proved abortive. The work done, however, prevented the main stream from again entering the creek.

The main trouble in this tract is that the river is moving steadily to the west and eroding canal heads and embankments and large areas are being thrown out of cultivation because of the subsoil water level rising above ground surface during the period of high river.

Minor Irrigation Works.

SHAMPUR IMPERIAL INUNDATION CANALS.

(SUPERINTENDING ENGINEER—Mr. J. P. COOK.)

1. No expenditure was incurred on capital works.

Capital Account—
Kharif 1921.
Rabi 1921-22.

2. Expenditure to the extent of Rs. 2,909 was incurred, the chief item being Rs. 1,179 spent on improving the Western Station Canal.

Extensions and improvements.

Four other works costing less than Rs. 500 each accounted for the remaining Rs. 1,130.

3. Rupees 30,544 were spent on ordinary annual maintenance and repairs including silt clearances.

Maintenance and repairs.

4. The rainfall was 27.37 inches (*kharif* 21.74 and *rabi* 2.63 inches) against 7.65 inches (*kharif* 7.40 inches and *rabi* 2.5 inches) in the previous year. In spite of a good beginning, the river was unfavourable until about the middle of August when a very large flood occurred. Canal banks were considerably damaged and low lying areas flooded, but any damage caused was fully covered by the resulting bumper *rabi* crop.

Nature of seasons and state of demand and supply.

The canals opened about the middle of April and closed in the third week of August.

5. The area irrigated compares as follows with the averages of the two previous triennia and the figures of 1920-21 :—

SEASON.	AVERAGE FOR THREE YEARS ENDING 31st MARCH.		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>Kharif</i>	15,587	16,188	...	9,808
<i>Rabi</i>	98,188	16,637	..	17,618
Total	38,720	32,825	...	27,226

The area successfully matured and assessed was 26,957 acres as against an average of 20,980 acres in the preceding triennium.

Revenue was remitted on 269 acres (45 acres in *kharif* and 224 acres in *rabi*) ; 228 acres being accounted for by short supply.

The areas remitted during the previous three years were :—

1918-19	...	...	4,755 acres.
1919-20	...	...	9,057 "
1920-21	...	...	5,576 "
	<i>Kharif.</i>	<i>Rabi.</i>	Total.
	Acres.	Acres.	Acres.
(a) Area irrigated ...	9,808	17,618	27,226
(b) Area remitted ...	45	224	269
(c) Area matured ...	9,563	17,894	26,957

The gross revenue realized amounted to Rs. 61,822 and working expenses to Rs. 90,523 resulting in a deficit of Rs. 28,701 equivalent to Rs. 12.76 per cent. on Rs. 2,25,021 the capital outlay up to date.

These figures compare as follows with the average of the preceding triennium :—

Details.	Average for the previous three years ending 31st March 1922.	Actual for 1921-22.
	Rs.	Rs.
Receipts Direct	68,168	47,797
Receipts Indirect	20,583	14,025
Total	88,751	61,822
Working expenses	88,052	90,523
Net Revenue	699	—28,701
Percentage of net Revenue ...	0.31	—12.76

The canals began and ceased to flow on the following dates :—

General remarks.

Name of Canal.	Date of opening.	Date of closing.	Number of days the canal was in flow.
Eastern Station Canal ...	18th April 1921 ...	21st August 1921 ...	91
Western Station Canal ...	14th April 1921 ...	Ditto ...	63
Sabiwal Canal ...	16th April 1921 ...	24th August 1921 ...	83

GHAGGAR CANALS.

(SUPERINTENDING ENGINEER—MR. I. M. BOSTOCK.)

1. Expenditure of Rs. 8,189 (Imperial Rs. 5,678 and contribution Rs. 2,401) was incurred on the construction of the out-houses at Moju Khera and Jagmalera and a subordinates' rest-house at Moju Khera. This brought the outlay to date to Rs. 6,77,973 (Imperial Rs. 3,87,572 and contribution Rs. 2,90,401).

Capital Account—

Kharif 1921.
Rabi 1921-22.

2. The expenditure was Rs. 2,673 (Imperial Rs. 2,113 and contribution Rs. 560) and was incurred in rebuilding a beldar's hut on the Otu weir, and constructing double gauge reader's hut on the borders of the Northern and Southern Ghaggar Canals.

Extensions and improvements.

3. The expenditure was Rs. 12,475 (Imperial Rs. 9,984 and contribution Rs. 2,491). In addition a sum of Rs. 7,201 was spent by the Bikaner State. The expenditure was incurred on ordinary maintenance and repairs and silt clearances.

Maintenance and repairs.

4. Kharif.—The total rainfall was 14.12 inches (kharif 11.15 inches and rabi 2.97 inches), against 6.95 inches in the previous year.

Nature of season and state of demand and supply—

Kharif 1921.
Rabi 1921-22.

The rainfall in the tract served by these canals was negligible before the monsoon broke in the middle of July. Subsequently good rain fell.

Rabi.—There was satisfactory rainfall as compared with the previous year. A small supply reached Otu lake on 24th July and was passed into the canals on 25th July 1921. In the early part of the season the supply in the canals was fair. It reached its maximum in the 3rd and 4th week of August and then dropped rapidly.

5. The following table shows the areas irrigated in the British and Bikaner territories during the last five years ending 1921-22. The area in the British territory includes that assessed by the Civil Department :—

Area irrigated—
Kharif 1921.
Rabi 1921-22.

Crop.	1917-18.			1918-19.			1919-20.			1920-21.			1921-22.		
	British.	Bikaner.	Total.	British.	Bikaner.	Total.	British.	Bikaner.	Total.	British.	Bikaner.	Total.	British.	Bikaner.	Total.
	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.	Aores.
Kharif ...	6,603	1,677	11,280	1,934	106	2,070	7,233	1,276	8,511	9,015	2,307	11,322	9,511	3,311	12,822
Rabi ...	12,320	6,091	19,314	9,508	1,212	10,750	7,953	3,272	10,231	1,335	289	4,523	9,439	1,843	11,282
Total ...	21,823	8,071	30,404	11,472	1,348	12,820	15,217	8,543	18,793	18,260	2,595	15,845	18,950	5,154	24,104
Northern Ghaggar Canal	123			52			73			71			94		
Southern Ghaggar Canal	122			39			65			61			65		

The area irrigated is smaller than that irrigated during 1917-18, but is appreciably larger than the area irrigated during any of the previous four years.

The amount of occupiers' rates assessed was Rs. 6,950 in *kharij* and Rs. 6,024 in *rabi* and the rates per acre assessed worked out to Rs. 3.22 and Rs. 2.50, respectively.

6. The operations of the year resulted in a loss of Rs. 21,056 which is equivalent to 5.43 per cent. on the capital outlay compared with a loss of Rs. 27,811 equivalent to 7.28 per cent. in the previous year.

Financial results based on collections—
Rabi 1920-21.
Kharij 1921.

7. From an irrigation point of view the year under report was a favourable one as is evident from the irrigation done during the year.

General remarks.

8. The following table of irrigation has been supplied by the State:—

			1920-21.			1921-22.		
			Kharij.	Rabi.	Total.	Kharij.	Rabi.	Total.
			Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Northern Canal	...	...	1,888	153	2,041	2,286	1,265	3,551
Southern Canal	...	...	419	135	554	1,055	578	1,633
Total	...	...	2,307	288	2,595	3,341	1,843	5,184
Flow	...	...	2,307	288	2,595	3,341	1,843	5,184
Lift	...	...	...	...	..	...	...	...
Total as above	...	...	2,307	288	2,595	3,341	1,843	5,184

The following table gives the financial results of the canals in the Bikaner State as supplied by the State officials:—

Particulars.			1920-21.	1921-22.
Receipts.			Rs.	Rs.
Water-rate	...	...	2,735	10,803
Miscellaneous	...	...	325	277
Total	...	...	3,060	11,080
Working Expenses.				
Establishment	...	...	3,218	3,362
Other expenses	..	...	8,088	7,200
Total	...	...	11,306	10,562
Profit or Loss net	...	...	-8,246	+ 518

On the basis of these figures the Bikaner State derived an insignificant profit of Re. 0.18 per cent. on the working of the canals for the year on the contribution capital account of Rs. 2,90,401 to date.

LOWER SUTLEJ INUNDATION CANALS.

(SUPERINTENDING ENGINEER—MR. H. F. ASHTON.)

Capital Account—
Kharij 1921.
Rabi 1921-22.

1. No Capital Account is at present kept for these canals but the question of doing so in the future is under consideration.

2. The expenditure amounted to Rs. 71,820 against Rs. 1,29,315 in the preceding year and was incurred chiefly on Extensions and improvements. a new diversion for the Hajiwah Canal through Jamlera creek; silt clearance Jiwanke Creek; a new head channel for Mohammadwah Canal; and Excavation of the Luddan diversion, Mailsi Canal.

3. The expenditure amounted to Rs. 1,47,325 against Rs. 1,10,453 in the preceding year and was incurred on ordinary Maintenance and repairs. maintenance of channels, buildings, silt clearances, widening and strengthening of certain channels, &c.

4. The rainfall during *kharif* and *rabi* was 4.39 and 1.17 inches, respectively, against 5.93 and 0.05 inches, respectively, in the preceding year and averages for the last 57 years of 4.79 and 1.2 inches. Nature of season and state of demand and supply—
Kharif 1921.
Rabi 1921-22.

The following statement gives the dates of opening and closing of canals:—

Name of Canal.	DATES OF		Number of days Canal was in flow.
	Opening.	Closing.	
Hajiwah	6th June 1921	25th September 1921.	81
Mailsi	24th May 1921	13th December 1921.	199
Mohammadwah	23rd June 1921	5th November 1921.	132
Bahawalwah Lodhran	25th June 1921	6th October 1921	96

Supply in the river was unusually low at the beginning of the *kharif*, and as this part of the season was unusually hot and dry, demand was very keen. An attempt was made to open the canals fairly early, but with no success as the river supply decreased and canals did not really flow till after the 20th of June; supply during July and August was satisfactory. The Mailsi Canal did not get a fair supply till the middle of July, but then worked till the middle of December. The Bahawalwah Lodhran Canal received only very low supplies till the end of July. The Hajiwah Canal did not do well as towards the end of August the head silted up very heavily in consequence of river erosion. Every endeavour was made to give it supplies from other sources, but without much success. The canal, however, remained in flow with small supplies till nearly the end of September. *Kharif* crops were mainly late sown fodder crops and were average; *Rabi* crops were above the average.

Area irrigated—
Kharif 1921.
Rabi 1921-22.

5. The following table compares the area irrigated and matured during the year with the averages of the two previous triennia and the figures of the preceding year:—

Season.	Canal.	AVERAGE FOR 3 YEARS ENDING				AREA IRRIGATED DURING			
		1917-18.		1920-21.		1923-21.		1921-22.	
		Irrigated.	Matured.	Irrigated.	Matured.	Irrigated.	Matured.	Irrigated.	Matured.
KHARIF	Hajiwah ...	Acres. 17,338	Acres. 7,430	Acres. 10,155	Acres. 8,147	Acres. 11,940	Acres. 8,460	Acres. 8,053	Acres. 4,057
	Sutlej series ...	144,483	107,937	115,869	74,701	124,045	67,230	112,094	85,559
	Total ..	161,821	115,367	125,024	80,848	135,985	75,689	120,177	89,646
RABI	Hajiwah ...	28,628	25,114	17,007	14,090	21,159	14,761	1,415	11,300
	Sutlej series ...	1,74,785	161,548	97,881	84,890	76,920	59,125	149,630	128,834
	Total ...	203,413	186,662	115,488	98,998	97,079	73,886	151,045	139,788
GRAND TOTAL...		365,234	302,029	240,512	179,846	233,064	149,575	271,222	229,434

The failed area amounted to 52,823 acres (30,531 acres in *kharif* and 22,292 in *rabi*) against 55,489 acres (32,296 acres in *kharif* and 23,193 acres in *rabi*) of the preceding year. The percentages of failure were 25.40 and 13.75 in *kharif* and *rabi*, respectively; against 45.81 and 21.89 in the previous year.

6. The gross income from all sources was Rs. 4,58,023 against Rs. 4,53,266 in 1920-21 and the total expenditure Rs. 4,03,341 against Rs. 4,53,818 in the preceding year, leaving a net revenue of Rs. 54,682. The income from direct receipts amounted to Rs. 1,98,653 only which falls short of the working expenses by Rs. 2,04,685.

7. Agricultural conditions of the year were, on the whole, good. *Rabi* crops were well matured and remissions for failed crops were comparatively low. The total areas irrigated and matured were greater than in the previous year and the general result of the year's working may be said to be satisfactory. The only mishap was the erosion which took place at the head of the Hajiwah Canal during August and September and resulted in its practical failure. There were no floods of any appreciable magnitude in the river during the season and the supply in canal was steadily maintained throughout.

No works except those absolutely necessary to maintain the canals were undertaken during the year. These canals suitably remodelled and brought up to date will eventually form part of the Sutlej Valley Project on which work has been started.

OHENAB INUNDATION CANALS.

(SUPERINTENDING ENGINEER—MR. H. F. ASHTON.)

Capital account—
Kharif 1920.
Rabi 1920-21.

1. No Capital Account is at present kept for these canals, but the question of doing so is under consideration.

2. The expenditure actually incurred on acquiring land for Lar Chad-dar distributary and converting it into a Government channel; and remodelling outlets on Gajjuhatta Canal amounted to Rs. 4,982, but a credit of Rs. 9,351, on account of land relinquished in Taraf Ismail and Mubbarik on Wali Muhammad Canal for a Government School resulted in a credit balance of Rs. 4,369.

3. The expenditure amounted to Rs. 93,850 against Rs. 1,05,126 in the preceding year and was incurred on ordinary maintenance of channels and buildings as well as on silt clearance, widening of certain channels, and observations of discharges of the rivers Ohenab and Jhelum.

4. The rainfall during *kharif* and *rabi*, respectively, was 5.49 inches and 2.55 inches against 3.17 and 0.03 inch in the previous year and averages for the last 58 years of 4.81 and 0.65 inches. Rivers rose late and the early *kharif* was excessively hot and dry. The *kharif* was below average both in area and outturn while the *rabi* was above average. The canals worked well considering the low supplies available. The following statement gives the dates of opening and closing of canals :—

Name of Canal.	DATES OF		Number of days canal was in flow.
	Opening.	Closing.	
Mattithal ...	27th May 1921 ..	8th September 1921...	75
Duarana Langana ...	Ditto ...	26th September 1921	70
Wali Muhammad ...	26th May 1921 ...	21st September 1921	78
Sikandrabad ...	23rd June 1921	Ditto	81
Balochanwaha ...	Ditto	17th September 1921	83
Gajjuhatta ...	26th June 1921 ...	11th September 1921	64

5. The following statement compares the areas irrigated during 1921-22 with that of 1920-21 and the averages of the two previous triennia :—

Area irrigated—
Kharif 1921.
Rabi 1921-22.

CROP.	AVERAGE OF 3 YEARS		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Aores.	Aores.	Aores.	Aores.
<i>Kharif</i> ...	91,703	58,826	83,005	65,059
<i>Rabi</i> ...	109,831	63,162	42,855	81,731
Total ...	201,534	121,988	131,360	146,790

The area which failed to mature and on which remissions were granted was 23,515 acres, or 36.14 per cent. of the total area irrigated during *kharif* and 9,741 acres or 11.92 per cent. during *rabi* against 17,136 acres or 56.78 per cent. and 20,900 acres, or 43.01 per cent. in the preceding year.

6. The gross income from all sources was Rs. 2,33,425 against Rs. 3,49,216 in 1920-21, and the expenditure under all heads was Rs. 1,67,127 against Rs. 2,12,884 in the preceding year. Direct receipts amounted to Rs. 90,431 which falls short of the working expenses by Rs. 76,696.

Financial results based on collections—
Rabi 1920-21.
Kharif 1921-22.

The uncollected balance of the assessment of occupiers' rates amounted to Rs. 6,833 against Rs. 1,657 of the preceding year.

7. No large works were undertaken during the year. A great deal remains to be done to bring these canals up to date, but owing to financial stringency rapid progress is not possible. Open cuts are being gradually abolished and the old types of outlets are being replaced by the standing wave type which is eminently suitable for these canals.

General remarks.

MUZAFFARGARH INUNDATION CANALS.

(SUPERINTENDING ENGINEER—MR H. F. ASHTON.)

1. These are the non-capital canals but the question of opening Capital Account for them is now under consideration. The accounts are classed under :—

Capital Account—
Kharif 1921.
Rabi 1921-22.

(i) Waterways and embankments under which comes the Embankments and Buildings.

(ii) Miscellaneous.

2. The expenditure was Rs. 16,083 against Rs. 15,739 in the preceding year. It was incurred chiefly on constructing few bridges and other miscellaneous petty works.

Extensions and improvements.

In addition to the above Rs. 11,007 against Rs. 1,987 during the previous year were spent from Agricultural Fund (Waterways and Embankments) on the construction of guards' quarters, a well in the compound of sub-divisional officer's quarters, a subordinates' rest-house at Raobela and a sub-divisional office at Kot Adu.

3. The expenditure amounted to Rs. 2,11,288 against Rs. 1,93,249 during the preceding year and was incurred on the ordinary silt clearance of channels and on works, such as repairing breaches; strengthening and raising banks and bunds; repairing regulators and excavating new head reaches, etc.

Maintenance and repairs.

In addition to the above Rs. 17,810 against Rs. 13,218 were spent from the Agricultural Fund (Waterways) for annual and special maintenance of rest-houses and flood embankments, etc.

Nature of reason and state of demand
and supply—
Kharif 1921.
Rabi 1921-22.

4. The rainfall during *kharif* and *rabi* was 6·88 and 2·63 inches against 2·82 and *nil* inches during the preceding year and an average of 3·87 inches and 1·03 inches for the last 23 years.

The following statement gives the dates of opening and closing of the canals during the year :—

Name of Canal.	DATES OF		Number of days canal was in flow.
	Opening.	Closing.	
INDUS SERIES.			
Kot Sultan ...	8th May 1921	29th November 1921	201
Magasson ...	1st April 1921	15th November 1921	229
Muggi ...	22nd May 1921	1st October 1921	132
Ghattu ...	11th May 1921	15th October 1921	158
Puran ...	Ditto	17th November 1921	159
Suleman ...	Ditto	7th November 1921	180
Karam ...	30th May 1921	14th September 1921	103
Ganesh ...	24th May 1921	12th September 1921	97
Taliri ...	23rd May 1921	30th September 1921	130

The rivers rose late and canals could not be opened till the 4th week of May and even then they got very low supplies. The rivers rose quickly from the first week of July and supplies in the canals remained abundant till the middle of September. On account of late rise of the rivers, indigo was sown in small quantity. However, conditions of canal supplies and rainfall were very favourable for rice, the main crop of the district, which was sown abundantly. Late *kharif* crops were also sown extensively. In this way the deficiency of early *kharif* crops was made up. The Chenab series of the canals were all dry by the end of September, but the Indus Series continued in flow till November. Canal supplies combined with good rainfall in August, October and December matured *kharif* crops and gave a very excellent *rabi* crop. The year was, on the whole, a favourable one.

5. The following statement compares the area irrigated during 1921-22 with the averages of the previous two triennia and the figures of 1920-21 :—

CROPS.	AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21	1920-21.	1921-22.
	Acres.	Acres.	Acres.	Acres.
<i>Kharif</i> ...	156,072	141,173	142,482	142,826
<i>Rabi</i> ...	230,903	227,433	187,885	193,462
Total ...	386,975	368,606	330,167	336,288

The failed area amounted to 14,121 acres (27,424 acres in *kharif* and 16,696 acres during *rabi*) against 59,350 acres (35,052 acres in *kharif* and 24,298 acres during *rabi*) of the preceding year. The percentages of failures in *kharif* and *rabi* were 19·20 and 8·6, respectively, against 24·6 and 12·9 in the preceding year.

6. The total revenue (direct and indirect) amounted to Rs. 6,14,767 against Rs. 6,33,579 in 1920-21, and total expenditure Rs. 4,21,793 against Rs. 3,94,141 in the preceding year. Direct receipts amounted to Rs. 2,43,929 only, which falls short of the working expenses by Rs. 1,77,864.

Financial results based on collections—
Rabi 1920-21.
Kharif 1921.

The uncollected balance of assessment of occupiers' rates amounted to Rs. 2,028 against Rs. 1,630 of the preceding year.

7. From the agricultural and irrigational points of view the year was a favourable one. *Kharif* supplies though late were good and average *kharif* crops were obtained; *rabi* crops were also good.

The movement of the Indus towards the west has produced a somewhat complicated situation in regard to the Indus series of canals, the supply channels to which have now to be made along creeks for several miles. A forward policy of canalizing some of these creeks and bringing new areas under irrigation and cultivation is well worth consideration.

The policy of taking heads of canals of the Chenab Series higher up the river proved very beneficial and these canals were the first in flow this year.

A programme of remodelling of channels and constructing advanced flood embankments, etc., is under preparation.

SHAHPUR PROVINCIAL INUNDATION CANALS.

(SUPERINTENDING ENGINEER—MR. J. P. COOK.)

Capital Account. 1. No Capital Account is kept for these Canals.

Extensions and improvements.

2. Expenditure was only Rs. 41.

3. Expenditure to the extent of Rs. 24,835 was incurred against Rs. 21,308 in the preceding year. Annual maintenance and repairs of channels and silt clearance of creeks and channels account for the sum spent.

4. The rainfall was 27.37 inches (*kharif* 24.74 and *rabi* 2.63 inches) against 7.65 inches (*kharif* 7.40 inches and *rabi* 0.25 inches) in the previous year.

Nature of seasons and state of demand and supply.

The flow season started in promising fashion, but the promise was not maintained. On August 13th a very heavy flood came down the Jhelum river. Considerable damage was done to the canals and low-lying areas suffered, but any damage done was covered many times over by the resulting bumper *rabi* crop. The dates of opening and closing of the various canals were as follows:—

Name of Canal.	Date of opening.	Date of closing.	Number of days the Canal was in flow.
Raniwah	1st April 1921 ..	18th August 1921	140
Corbynwah	26th April 1921	16th August 1921	83

Area irrigated—
Kharif 1921.
Rabi 1921-22.

5. The irrigation during the year compares as follows with the averages of the two preceding triennia and with the figures of 1920-21:—

SEASON.	AVERAGE OF 3 YEARS ENDING		AREA IRRIGATED DURING	
	1917-18.	1920-21.	1920-21.	1921-22.
	Aores.	Aores.	Aores.	Aores.
<i>Kharif</i>	8,790	17,664	17,477	17,606
<i>Rabi</i>	16,388	5,638	4,203	9,663
Total	25,128	23,302	21,680	27,269

The area successfully matured and assessed was 27,088 acres as against 20,501 in the preceding year.

Revenue was remitted on 186 acres on account of short supply. In addition to this 167 acres were remitted under free grants.

Detail of area remitted.

				Free grant.	Short supply, etc.	Total.
				Acrea.	Acrea.	Acrea.
<i>Kharif</i>	...	...	...	167	27	194
<i>Rabi</i>	...	...	...	...	159	159
Total				167	186	353

6. The gross revenue realised amounted to Rs. 37,251 and working expenses to Rs. 6,311 resulting in a deficit of Rs. 30,057. These figures compare as follows with the average of the previous triennium :—

Details.				AVERAGE FOR 3 YEARS ENDING	
				1920-21.	1921-22.
				Rs.	Rs.
Total assessments (Direct and Indirect)	...	...	...	55,014	50,062
Receipts (Direct and Indirect)	...	...	...	44,823	37,251
Working Expenses	...	...	...	56,528	67,811
Net Revenue	..	...	..	— 12,295	— 30,057

Whereas a general remission of one quarter had to be granted on purely cotton areas, the *rabi* crop was an exceptionally good one.

General remarks

7. The Corbynwah is a small channel whose principal function is to irrigate pasture lands, most of which are free from assessment.

LAHORE :

Dated 22nd December 1922.

W. P. SANGSTER,
Chief Engineer,
Irrigation Works, Punjab.

GOVERNMENT OF THE PUNJAB.
PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

Part II.

STATISTICAL STATEMENTS FOR THE YEAR 1921-22.

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STATEMENT OF CANALS

MAJOR OR PRODUCTIVE

PARTICULARS.	1	Western Jumna Canal including Sirsa Branch, Britto, and Pafuna.	SIRSA CANAL		Doab Upper Canal.	Doab Lower Canal.	Upper Chenab Canal.	Lower Chenab Canal.
			British.	Potela, Nabha and Sarda.				
		2	3	4	5	6	7	8
Source of supply	...	Jumna.		Satlaj.	Ravi.	Rail and Chenab.	Chenab.	Chenab.
Minimum discharge of river.	...	2,167	2,720	...	1,272	...	3,851	3,854
Maximum discharge of canal.	...	2,894	1,165	...	2,000	...	3,853	1,731
Average annual rainfall	...	6,178	3,841	2,160	5,000	6,750	11,712	8,813
Gross area commanded	...	6,430	5,461	3,680	6,500	7,000	11,029	10,853
Culturable area commanded	...	6,181	3,009	...	6,507	7,001	12,635	10,537
Area proposed to be irrigated annually.	...	(a) 17-85	(b) 16-72	(c) 16-10	(a) 21-10	(b) 18-10	(c) 22-31	(c) 18-03
Sanctioned Estimate—	...	2,707,250	2,400,501	1,931,560	1,433,490	1,502,703	1,500,100	3,390,791
Direct charges	...	2,214,407	2,034,321	1,629,333	1,321,033	1,327,249	1,510,472	2,545,433
Indirect charges	...	492,843	366,180	302,227	1,112,457	1,175,454	989,627	1,570,358
Interest during construction	...	1,03,312	22,100	1,11,607	1,00,000	1,00,000	1,00,000	1,00,000
Total Estimate	...	1,87,58,571	2,41,23,089	1,13,70,713	2,43,53,333	2,21,33,271	3,40,23,903	3,24,19,053
Expenditure to end of 1921-22.	...	8,31,263	12,22,009	...	7,00,000	4,11,100	9,85,521	5,02,734
Indirect charges	...	32,08,011	65,45,401	...	1,01,87,000	30,00,000	51,00,216	64,52,313
Interest during construction	...	2,27,50,171	3,14,50,109	1,49,30,713	3,75,54,007	2,45,75,057	1,80,31,447	3,90,78,029
Total Expenditure	...	62	278	210	291	132	173	40
Works now sanctioned—
Main Canals, irrigation
Branch Canals
Branch Feeder Canals
Lower Chautang Nala Canal	...	1,510	1,611	1,510	1,515	1,203	1,252	2,243
Distributaries, irrigation
Lower Chautang Nala Canal Distributaries
Of above—	...	121	92	10	...	...	...	...
Navigable Channels
Works completed to end of 1921-22—
Main Canals, irrigation
Branch Canals
Branch Feeder Canals
Lower Chautang Nala Canal	...	1,510	1,611	1,510	1,515	1,203	1,252	2,243
Distributaries, irrigation
Lower Chautang Nala Canal Distributaries
Of above—	...	121	92	10	...	...	...	...
Navigable Channels

Note—Miles shown in this statement

- (a) Average rainfall for the last 43 years.
- (b) Ditto ditto 37 do.
- (c) Ditto ditto 32 do.
- (d) Ditto ditto 29 do.
- (e) Ditto ditto 18 do.

IN THE PUNJAB.

IRRIGATION WORKS.

UNPRODUCTIVE WORKS

NON-CAPITAL WORKS.

Upper Jhelum Canal.	Lower Jhelum Canal.	Upper Sutlej Canals.	Sidhuai Canals.	Indus Inundation Canals.	Shahpur (Imperial) Inundation Canals.	GHAGGAR INUNDATION CANALS.		Lower Settled Inundation Canals.	Chenab Inundation Canals.	Muzaffargarh Inundation Canals.	Shahpur (Provincial) Inundation Canals.
9	10	11	12	13	14	British.	Bikanor State.	17	18	19	20
Jhelum	Jhelum	Sutlej.	Ravi.	Indus.	Jhelum.		Ghaggar	Sutlej.	Chenab.	Indus and Chenab.	Jhelum.
4,010	...	3,001	{ The river runs dry.	9,489	...	...	...	2,016	808	9,434 808	...
7,294	...	...	...	89,952	...	...	...	2,016	2,908	28,635 1,186	...
8,380	3,800	4,935	2,120	...	1,100	1,000	500	5,500	5,168	7,044	933
8,380	4,200	...	2,325	...	1,100	1,439	666	...	...	...	932
8,724	1,318	10,040	2,314	10,174	814	494	219	5,793	4,900	10,828	770
12,71	(h)12,11	(d)10,00	(i)6,99	(j)5,69	(k)14,89	(g)10,8	(l)1,68	(j)7,70	(j)5,81	(a)5,68	(f)14,29
603,740	1,312,874	989,780	420,717	704,455	67,607	86,821	44,901	918,208	463,473	726,369	80,928
573,329	1,251,900	840,638	395,269	619,284	62,911	72,478	31,618	65,162	360,813	647,917	53,255
319,557	660,10	348,687	269,220	291,176	47,750	46,874	17,809	210,000	200,000	394,517	27,000
71,457	829,000	379,184	259,220	202,178	47,770	46,831	17,009	250,000	200,000	394,517	24,170
4,321,482	1,81,05,762	13,16,378	9,62,363	6,87,908	2,05,933	1,59,091	3,67,365	...	...	...	...
1,050,277	5,78,206	46,400	37,692	14,729	9,941	1,008	...	...	...	...	...
73,90,746	32,93,351	...	39,146	...	...	...	...	...	...	...	...
5,19,17,316	2,21,25,512	13,84,776	10,88,561	7,67,635	2,15,414	1,69,720	3,07,385	...	...	...	...
3,00,40,212	1,74,60,000	17,2,524	12,90,201	23,91,403	2,14,690	8,76,421	2,9,401	...	...	...	...
9,16,705	4,58,708	1,01,254	40,342	80,324	10,331	11,149	...	...	...	...	...
86,21,413	88,63,711	8,67,090	2,12,611	68,207	...	...	...	...	...	...	...
5,30,81,969	2,63,12,426	27,16,567	16,43,064	36,60,994	2,25,121	3,97,572	2,90,401	...	...	...	...
188	89	328	68	428	10	41	63	397	220	423	37
40	157	...	...	...	12	...	...	...	...	...	18
...
...
660	951	894	251	297	60	31	...	286	135	700	52
...
...
188	89	328	68	428	10	41	63	397	220	423	37
40	157	...	...	...	12	...	...	...	...	...	18
...
...
660	951	894	251	297	60	31	...	286	135	700	52
...
...

are canal miles of 5,000 feet.
 Taidnagar Channels.
 for Khimber diversion.
 (1) Average rainfall for the last 16 years.
 (2) Ditto ditto 33 do.
 (3) Ditto ditto 20 do.
 (4) Ditto ditto 88 do.
 (5) Ditto ditto 55 do.
 (6) Ditto ditto 19 do.

I B. CAPITAL ACCOUNT OF THE IRRIGATION WORKS IN THE PUNJAB PROVINCE FOR, AND TO END OF, THE YEAR, 1921-22.

		DIRECT CHARGES (NET EXPENDITURE).					Indirect charges exclusive of interest.	Total charges excluding interest.	Simple interest.
		Works.	Establishment.	Tools and Plant.	Expenses.	Total.			
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55-CONSTRUCTION OF IRRIGATION, ETC. WORKS.									
A.-IRRIGATION WORKS.									
Productive									
Western Canal (including Sirsa Branch).	Jamuna	1,32,32,108	33,54,512	2,21,048	2,22,701	1,76,80,611	6,14,789	1,79,04,433	2,57,51,775
		2,40,853	1,04,021	10,321	85,368	4,35,218	17,564	4,72,502	5,97,896
		1,75,23,668	44,84,640	21,07,579	3,17,770	2,46,12,787	12,10,016	2,69,27,700	3,73,01,566
Sirhind Canal		9,561	35,647	1,264	9,089	1,09,702	5,198	1,14,900	8,23,153
		1,00,48,145	34,15,878	7,18,658	2,18,739	2,49,81,643	7,39,028	2,11,12,169	3,62,25,442
		105	55	1	11,002	1,710	14	14,700	6,80,457
Upper Bari Canal.	Doab	1,03,07,505	11,73,089	19,83,224	6,45,522	2,21,10,003	4,77,000	2,29,17,003	49,61,176
		81,051	21,140	1,078	9,002	63,270	3,676	66,946	7,67,824
Lower Bari Canal.	Doab	2,70,24,020	45,02,674	21,89,432	6,09,207	3,44,76,983	9,09,205	3,53,74,118	1,30,57,457
		1,78,000	50,161	1,804	27,065	2,17,823	118	2,49,019	11,21,032
Upper Chenab Canal.		8,62,02,326	80,01,100	6,35,71	3,85,974	3,22,62,261	8,08,428	3,30,64,764	2,80,78,363
		54,427	23,854	2,568	77,421	1,57,501	3,332	1,67,833	10,96,657
Lower Chenab Canal.		3,91,75,680	10,69,431	49,14,119	7,14,297	4,39,02,701	9,11,903	4,45,07,667	1,45,42,404
		1,473	4,121	703	47,115	43,511	793	71,220	14,67,324
Upper Jhelum Canal.		1,45,71,000	25,31,511	7,43,332	1,71,172	1,79,91,217	4,56,709	1,73,30,176	1,00,27,706
		3,61,072	1,31,677	21,129	7,734	3,43,512	22,194	3,65,706	8,17,79
Lower Jhelum Canal.		1,79,500	2,04,700	21,000	2,100	17,20,000	1,01,251	18,21,251	21,34,192
		0,44,000	2,01,394	34,114	12,715	12,92,203	40,376	13,33,258	18,04,000
Upper Sutlej Inundation Canals.		1,318	370	10	4,100	4,888	80,331	22,75,449	24,31,545
Sirhind Inundation Canals.		23,64,151	4,69,019	55,080	32,509	24,95,859	1,626	1,626	99,022
		2,73,427	5,413	2,29,672	7,79,405	15,31,847	9,019	15,41,295	61,578
Central Workshop		5,783	13,193	4,617	7,150	1,21,400	2,899	1,24,400	6,239
		18,000	4,324	20,705	41,795	1,21,120	6,681	1,27,807	18,09,355
Sutlej Valley Project		18,81,53,878	3,24,02,081	1,21,44,897	14,6,714	21,55,69,015	68,73,671	22,82,22,316	74,60,234
		9,93,316	4,32,780	62,447	4,28,687	19,84,813	67,633	19,97,708	74,60,234
Total									
Unproductive Works.									
Shahpur Canal		1,61,008	37,714	206	—	3,14,090	10,291	2,55,121	—
		2,04,864	63,938	5,067	—	3,79,911	10,933	7,61,804	—
Ghaggar Canal		3,785	1,419	203	—	5,478	199	5,678	—
		4,00,010	91,891	8,933	—	5,85,834	21,251	6,06,815	—
Total		3,785	1,419	203	—	5,478	199	5,678	—
B.-NAVIGATION, ETC. WORKS.									
Nil.									
Construction.									
Western Canal (including Sirsa Branch).	Jamuna	9,13,654	2,87,731	27,120	—	11,53,104	—	11,53,104	—
		19,861	8,773	1,154	—	29,778	—	29,778	—
		97,60,915	23,78,510	12,01,632	—	1,43,58,346	—	1,43,58,346	—
Sirhind Canal		11,374	1,004	8	—	12,610	—	12,610	—
		1,218	100	1	—	1,319	—	1,319	—
		1,070	91	1	—	1,162	—	1,162	—
Ghaggar Canal		2,40,487	41,599	2,123	—	2,87,540	—	2,87,540	—
		1,614	720	127	—	2,461	—	2,461	—
Sutlej Valley Project		24,916	24,184	45,780	—	91,735	—	91,735	—
		1,09,04,065	23,68,481	12,77,974	—	1,67,69,489	—	1,67,69,489	—
Total		28,816	64,873	48,851	—	91,766	—	91,766	—
Jalpur Canal		28,679	19,331	3,034	—	51,044	—	51,044	—

I C.

**STATEMENT SHOWING THE FINANCIAL RESULTS OF THE IRRIGATION WORKS IN
- THE PUNJAB PROVINCE FOR THE YEAR ENDING 31st MARCH 1922.**

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION
REALIZATIONS UNDER THE MAIN HEADS OF

IRRIGATION.	REVENUE (ACTUAL RECEIPTS).										
	Irrigation.			F. L. L.	San Jacinto	F. L. L.	San Jacinto	F. L. L.	San Jacinto	F. L. L.	San Jacinto
	Water rights (monthly rate)	Water rights (monthly rate)	Water rights (monthly rate)								
1	2	3	4	5	6	7	8	9	10	11	12
MAJOR WORKS											
A—IRRIGATING PROTECTIVE WORKS:											
Western Junior Canal	27,714.00	2,125.00		29,839.00	1,000.00	28,839.00	8,100.00	20,739.00	21,500.00	2,000.00	23,500.00
San Jacinto Canal	4,775.00	1,250.00		6,025.00	1,000.00	5,025.00	1,000.00	4,025.00	4,000.00	2,000.00	6,000.00
Upper San Jacinto Canal	10,750.00	2,000.00		12,750.00	2,000.00	10,750.00	1,000.00	9,750.00	9,750.00	1,000.00	10,750.00
Lower San Jacinto Canal	22,000.00	2,000.00		24,000.00	1,000.00	23,000.00	1,000.00	22,000.00	22,000.00	1,000.00	23,000.00
Upper Colorado Canal	20,000.00	2,000.00		22,000.00	1,000.00	21,000.00	1,000.00	20,000.00	20,000.00	1,000.00	21,000.00
Lower Colorado Canal	8,000.00	2,000.00		10,000.00	1,000.00	9,000.00	1,000.00	8,000.00	8,000.00	1,000.00	9,000.00
Upper Rio Grande Canal	14,000.00	2,000.00		16,000.00	1,000.00	15,000.00	1,000.00	14,000.00	14,000.00	1,000.00	15,000.00
Lower Rio Grande Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
Upper San Antonio Canal	1,000.00	2,000.00		3,000.00	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	2,000.00
San Antonio Canal	1,000.00	2,000.00		3,000.00	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	2,000.00
Lower San Antonio Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
San Antonio Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
Total	100,000.00	10,000.00		110,000.00	10,000.00	100,000.00	10,000.00	90,000.00	90,000.00	10,000.00	100,000.00
EXPENSIVE WORKS											
San Jacinto Canal	1,000.00	1,000.00		2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	2,000.00
Colorado Canal	1,000.00	1,000.00		2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	2,000.00
Total	2,000.00	2,000.00		4,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	4,000.00
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT											
Lower San Jacinto Canal	1,000.00	2,000.00		3,000.00	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	3,000.00
San Jacinto Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
Upper San Jacinto Canal	1,000.00	2,000.00		3,000.00	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	3,000.00
San Jacinto Canal	1,000.00	2,000.00		3,000.00	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,000.00	3,000.00
Total	5,000.00	8,000.00		13,000.00	4,000.00	9,000.00	4,000.00	4,000.00	4,000.00	4,000.00	13,000.00
CONTRIBUTION											
Western Junior Canal, San Jacinto	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
San Jacinto Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
Colorado Canal	2,000.00	2,000.00		4,000.00	1,000.00	3,000.00	1,000.00	2,000.00	2,000.00	1,000.00	3,000.00
Total	6,000.00	6,000.00		12,000.00	3,000.00	9,000.00	3,000.00	4,000.00	4,000.00	3,000.00	12,000.00

1) The above figures are based on the actual receipts for the year 1947, and are subject to change if the actual receipts for the year 1948 are different from those shown above.
 2) The above figures are based on the actual receipts for the year 1947, and are subject to change if the actual receipts for the year 1948 are different from those shown above.
 3) The above figures are based on the actual receipts for the year 1947, and are subject to change if the actual receipts for the year 1948 are different from those shown above.

4) The above figures are based on the actual receipts for the year 1947, and are subject to change if the actual receipts for the year 1948 are different from those shown above.

Total 13,000

WORKS IN THE PUNJAB PROVINCE FOR THE YEAR ENDING 31st MARCH 1922.

REVENUE AND WORKING EXPENSES.

MAINTENANCE OF WORKS.																			
REVENUE MANAGEMENT ESTABLISHMENT.					MAINTENANCE ESTABLISHMENT.														
Direction.	Executive.	Navigation.	Civil Officers.	Total.	Direction.	Executive.	Medical.	Total.	Works.	Repairs.	Sundries.	Tools and Plant.	Plant test.	Total cost of maintenance.	Total direct charges.	Indirect charges.	Grand Total Working Expenses.	Net Revenue.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
13	14	15	16	17	19	18	20	21	22	23	24	25	26	27	28	29	30	31	
6,01,831	6,04,601	1,05,771	..	1,05,774	2,912	6,31,811	-1,169	53,497	13,255	6,87,403	16,52,203	1,33,656	18,16,322	12,06,148			
8,39,411	8,33,414	65,350	..	57,106	8,250	3,07,302	-1,454	9,159	23,692	1,70,376	14,10,703	1,31,669	15,52,679	38,53,267			
7,03,502	7,04,802	1,35,299	..	1,05,200	2,950	1,59,099	-500	17,104	30,813	16,72,187	17,78,581	130,679	19,09,767	82,85,650			
6,71,410	6,74,040	2,85,737	..	2,45,752	1,279	6,95,129	2,791	14,103	77,757	11,81,556	18,58,102	1,41,105	20,00,303	8,04,490			
6,25,123	6,28,421	2,17,055	..	2,12,000	1,424	7,07,891	-5,071	14,017	30,117	12,14,81	18,42,601	1,28,236	16,76,812	49,75,093			
13,33,261	13,03,261	2,09,281	..	2,05,201	1,080	8,04,517	1,211	13,277	62,356	13,07,212	27,40,478	2,55,291	23,05,767	1,39,46,501			
4,98,612	4,98,612	3,19,555	..	3,13,114	1,542	6,72,791	-3,241	35,029	14,077	11,01,012	16,20,478	1,16,315	17,36,609	4,28,099			
6,85,623	6,85,623	1,01,182	..	1,00,182	2,239	3,12,019	2,114	99,089	12,161	6,87,613	13,64,760	1,16,633	14,83,609	29,94,229			
2,09,233	2,08,713	1,01,061	..	1,00,000	2,019	3,10,850	-2,000	4,059	7,183	4,91,908	6,43,721	47,831	6,91,369	87,230			
16,623	16,623	26,119	..	26,113	16,814	2,101	421	1,131	6,709	1,15,409	1,01,053	12,633	2,03,736	66,297			
1,13,647	1,13,647	1,73,045	..	1,70,015	1,67,110	2,43,618	-1,411	8,598	15,117	5,50,717	7,39,191	49,566	7,62,173	-139,175			
3,07,818	3,07,818	-3,05,008	..	-3,05,008	-62,075	4,254		32,032		-3,81,787	85,631	12,260	77,021	75,071			
69,71,000	69,71,000	1,76,873	..	15,75,672	11,44,729	57,55,741	-13,693	2,03,833	2,65,559	40,00,134	1,67,61,183	12,61,112	1,72,23,316	3,92,56,661			
27,141	27,141	24,107	..	23,107	2,000	2,144	-1	1,001	..	63,011	89,755	6,708	90,623	-29,701			
6,060	6,060	6,895	..	6,895	2,111	6,615		849	169	16,416	20,020	1,011	21,031	-21,031			
27,124	27,124	35,602	..	35,602	1,122	46,839	-1	2,016	169	87,531	1,10,075	8,711	1,18,886	-10,757			
80,490	80,490	84,742	..	84,742	85	71,970	1,47,614	-7,651	1,751	0,721	2,62,647	3,50,217	23,124	4,03,331	40,126		
68,240	68,240	87,126	..	87,126	63,114	16,055	1,85,054	-2,509	1,500	16,534	8,09,503	3,07,749	24,053	4,21,797	1,02,971		
34,081	34,081	33,950	..	33,950	35,360	-4,264	65,470	711	8,300	1,23,391	1,57,635	0,492	167,187	64,229			
18,271	18,271	27,073	..	27,073	22,673	-721	23,410	..	1,450	3,177	49,089	62,370	6,033	67,311	-30,657		
2,16,000	2,16,000	2,13,070	..	2,13,070	8,219	1,43,819	-9,719	5,701	31,013	7,61,933	6,67,874	61,002	10,89,672	2,09,835			
27,054	27,054	61,047	..	61,047	63,017	10,219	(c) 61,184	3,075	..	1,37,431	1,62,463	..	1,62,463	+70,173			
61,790	61,790	1,13,663	..	1,13,663	7,113	1,71,359	(c) 3,45,413	2,217	1,010	8,24,642	8,89,231	..	8,89,231	+32,41,006			
..	7,193	..	7,193	7,403	500	(d) 7,323	..	..	17,994	17,860	..	17,860	-17,860			
89,963	89,963	1,84,116	..	1,84,116	1,61,161	4,00,652	-8,10	0,431	1,739	0,61,867	10,68,740	..	10,68,740	23,09,761			

the Administrative Accounts of the Province.
 spent by the Patiala State on the Maintenance of State channels.
 Accounts of the Province.
 by the Native States of Patiala, Nabha and Ind, respectively.

STATEMENT SHOWING THE FINANCIAL RESULTS OF THE IRRIGATION

No. of works.	Names of works.	GENERAL FINANCIAL RESULTS TO END OF THE YEAR, 1921-22.								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work (P. W. D. Code volume II, 1918).	Date when the system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated arrears of revenue.	Total sum-at-charge (columns 7 & 9).
		Main Canal and Branches.	Distributaries.							
1	2	3	4	5	6a	6b	7	8	9	10
		Miles.	Miles.	Rs.			Rs.	Rs.	Rs.	Rs.
PRODUCTIVE WORKS.										
A.—IRRIGATION WORKS.										
		(a)	(b)							
1	Western Jumna Canal	293	1,748	1,82,91,212	Sirsa Branch 1895	1891-93	1,33,77,235	...	5,57,34,232	1,83,77,235
2	Sirhind Canal	318	1,614	2,59,43,439	1856-57	1853-84	2,59,44,693	...	2,77,02,714	2,59,44,693
3	Upper Bari Doab Canal.	324	1,511	2,10,43,250	1878-79	1860-81	2,10,97,469	...	6,02,72,121	2,10,97,469
4	Lower Bari Doab Canal.	132	1,203	2,75,42,584	31st March 1917	1913-14	2,26,74,438	...	61,24,241	2,26,74,438
5	Upper Chenab Canal	173	1,190	3,51,27,721	Ditto	1912-18	3,56,22,281	27,78,944	...	3,83,99,175
6	Lower Chenab Canal	427	3,243	3,38,06,446	1879-1900	"	3,32,25,707	...	19,19,41,873	3,22,25,707
7	Upper Jhelum Canal	128	666	4,37,08,805	8th March 1917	1915-16	4,45,61,917	1,63,99,630	...	4,69,80,947
8	Lower Jhelum Canal	196	981	1,87,93,623	Ditto	1901	1,79,38,712	...	8,7,64,819	1,79,38,712
					Upper Sutlej 1855-59	1855	18,29,777	...	43,47,077	18,29,777
9	Upper Sutlej Inundation Canals.	338	394	18,02,708	Lower Sirhind 1884	1884	...	...	61,06,551	18,30,543
10	Sidhnai Inundation Canals.	69	251	12,95,562	Pata 1895-96	1896	13,30,543	...	...	13,30,543
11	Indus Inundation Canals.	429	297	29,24,405	1819-50	Prior to 1849	29,73,787	6,71,742	...	35,45,529
12	Central Workshop	...	...	6,08,871	W. J. C. 1886	...	14,65,861	...	13,199	14,65,861
13	Sutlej Valley Project	...	...	14,20,37,007	...	1920	1,77,207	5,123	...	1,82,430
	Total	2,531	12,143	36,77,65,819	...	...	22,72,19,739	1,93,52,939	38,00,06,690	24,70,72,678
UNPRODUCTIVE WORKS.										
A.—IRRIGATION.										
14	Shahpur Canal (Imperial.)	71	83	2,25,021	1870-71	1870	2,25,021	...	11,43,500	2,25,021
15	Ghaggar Canal	44	34	3,87,572	1898-99	1897	3,87,572	12,37,018	...	16,24,590
	Total	115	117	6,12,593	...	...	6,12,593	12,37,018	11,43,500	18,49,611
B.—NAVIGATION, ETC., WORKS.										
CONTRIBUTION.										
16	Western Jumna Canal	...	...	11,93,973	...	...	11,93,973	...	...	11,93,973
17	Sirhind Canal	...	...	1,43,50,713	...	...	1,43,50,713	...	...	1,43,50,713
18	Ghaggar Canal	58	...	2,90,401	...	...	2,90,401	...	...	2,90,401
19	Sutlej Valley Project	...	...	...	...	...	2,35,224	...	...	2,35,224
	Total	63	...	1,58,31,186	...	...	1,60,70,310	...	...	1,60,70,310
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.										
20	Lower Sutlej Inundation Canals.	397	286	...	1895	Were in operation prior to the annexation of the Punjab by the British.	...	...	81,87,632	...
21	Chenab Inundation Canals.	266	64	...	1895		...	...	79,83,970	...
22	Muzaffargarh Inundation Canals.	428	720	...	1893		...	...	93,70,802	...
23	Shahpur Canal	55	52	...	...		...	...	2,09,014	...
	Total	1,141	1,122	...	...	...	...	...	2,57,56,468	...

*As an Inundation Canal in 1857 and as a Perennial Canal in 1892.

(a) Includes 4 miles and (b) 45 miles of the Lower Chautang Nallah Canal.

C.

WORKS FOR, AND TO END OF, THE YEAR, 1921-22.

FINANCIAL RESULTS OF THE YEAR 1921-22.									
Gross receipts (direct and indirect).	Working expenses (direct and indirect).	No. Revenue.	Percentage on Capital outlay (column 7).	Percentage on sum-at-charge (column 10).	Interest on direct Capital outlay.	Net profit.	Net loss.	Areas irrigated.	Percentage of working expenses to revenue (columns 11 to 12).
11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.			Rs.	Rs.	Rs.	Acres.	
31,11,163	18,16,322	12,00,143	7.05	7.05	5,87,586	7,03,257	...	8,55,863	58.34
54,05,966	16,52,679	39,53,257	14.65	14.65	3,25,182	30,25,105	...	19,24,494	28.68
52,04,810	14,99,760	32,05,050	13.02	13.02	2,90,485	25,14,570	...	18,43,471	36.66
43,94,850	20,00,390	23,94,460	10.66	10.66	2,57,824	16,36,686	...	9,98,478	45.97
69,45,910	19,70,412	49,75,098	18.98	14.01	11,51,085	38,24,107	...	9,55,421	28.37
1,89,86,861	29,95,757	1,39,10,894	41.91	41.96	10,08,587	1,28,44,907	...	25,80,982	14.14
21,62,805	17,36,809	4,26,996	0.95	0.61	11,07,324	...	10,41,828	3,58,567	80.30
44,79,827	14,65,699	29,94,228	16.72	19.72	6,17,179	23,77,049	...	8,71,658	38.16
7,73,521	6,01,852	27,230	4.76	4.76	67,701	29,448	...	3,86,950	83.79
2,70,023	2,03,738	66,287	4.98	4.98	42,846	23,441	...	2,44,053	75.45
6,23,993	7,82,173	-1,53,176	-5.15	4.20	96,022	...	2,40,197	2,26,970	124.35
1,52,995	77,921	75,074	5.11	5.11	61,875	13,189	...	...	50.93
...	...	...	...	...	5,223	...	5,223	...	...
5,64,72,831	1,72,22,310	3,32,50,691	14.07	19.45	74,80,254	2,70,96,076	12,95,743	1,04,01,557	34.12
						2,58,00,327			
61,922	90,533	-29,701	12.76	12.76	7,382	...	35,093	27,226	145.42
7,807	28,863	-21,056	5.43	1.29	12,057	...	39,718	18,960	369.70
69,029	1,19,386	-49,757	7.12	2.60	20,039	...	69,796	46,176	171.46
393	1,28,230	-1,27,927	10.29	10.29	...	...	1,22,927	...	49,666.66
1,35,495	4,55,251	-3,19,756	2.23	2.23	...	...	3,19,756	...	335.32
...	7,331	-7,331	2.48	2.48	...	...	7,331	5,184	...
...
1,35,798	5,55,812	-4,50,014	2.80	2.80	...	...	4,50,014	5,184	431.45
4,43,461	4,03,341	40,120	...	...	...	40,120	...	260,724	90.98
2,83,425	1,07,127	66,298	...	...	...	66,298	...	145,799	71.59
6,14,767	4,21,793	1,92,974	...	...	...	1,92,974	...	385,288	63.61
37,254	67,311	-30,057	...	...	...	...	30,057	27,269	180.70
18,28,907	10,59,572	2,69,335	...	...	...	2,69,335	30,057	771,071	79.65
						2,69,335			

III C.

STATEMENT SHOWING THE DEMANDS AND REALIZATIONS IN THE PUNJAB FOR THE YEAR 1921-22.

Names of Canals.	Demands unrealized at the commencement of the year.	Demand during the year.	Total.	Deducted remissions not including canal refunds.	Grt amount.	Realization.	Amount unrealized at the close of the year
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
XIII.—IRRIGATION, ETC., WORKS.							
<i>A.—Irrigation—Productive Works.</i>							
Western Jinnah Canal ...	55,423	25,61,056	29,17,379	1,35,824	27,82,055	26,71,481	1,10,594
Sirhind Canal ..	1,39,690	48,76,533	50,16,223	83,432	49,17,791	48,30,923	86,868
Upper Bari Doab Canal ...	38,155	41,27,103	41,65,258	89,353	40,65,905	40,17,457	48,418
Lower Bari Doab Canal ...	40,117	24,77,455	25,17,572	2,94,344	22,23,238	22,47,451	—24,213
Upper Chenab Canal ...	54,528	32,02,445	32,56,973	1,57,691	30,99,342	30,30,432	68,910
Lower Chenab Canal ...	2,769	90,20,773	90,29,512	33,830	89,96,212	89,64,166	32,046
Upper Jhelum Canal ...	1,563	14,73,268	14,75,811	...	14,75,871	14,92,501	17,130
Lower Jhelum Canal ...	7,655	27,35,310	28,02,968	3,174	27,99,794	27,93,424	6,370
Upper Sutlej Inundation Canals ...	4,509	5,55,799	5,50,809	11,292	5,49,016	5,29,063	19,955
Sidhwal Inundation Canals ...	(b)	(b)	(b)	(b)	(b)	1,43,631	—1,43,631
Indus Inundation Canals ...	51,227	3,39,503	3,40,730	20	3,39,710	(c) 3,37,625	53,082
Total ...	3,95,449	3,17,36,695	3,21,32,334	8,82,920	3,12,99,484	3,10,65,167	2,41,267
<i>Unproductive Works.</i>							
Shabpar Canal (Imperial) ...	8	59,351	59,359	10,584	47,775	47,797	23
Ghaggar Canal ...	100	9,417	9,523	2,002	7,921	7,803	118
Total ...	514	67,768	68,282	12,586	55,696	55,600	140
XIV.—IRRIGATION, ETC., WORKS.							
Lower Sutlej Inundation Canals ...	798	1,77,619	1,78,617	..	1,78,617	1,79,551	—934
Muzaffargarh Inundation Canals ...	1,030	2,24,929	2,26,250	113	2,26,137	2,24,109	2,023
Chenab Inundation Canals ...	1,657	88,552	90,209	..	90,269	83,607	6,602
Hajiala Inundation Canals ...	...	15,769	15,769	...	15,769	14,915	824
Shalpin Canal (Provincial) ...	77	32,820	32,897	3,157	29,740	29,018	727
Namal Dam and Canal ...	...	21,208	21,208	...	21,208	21,217	—9
Total ...	4,162	5,60,788	5,64,950	3,270	5,61,683	5,52,442	9,235
<i>Own rs' Rates.</i>							
Lower Chenab Canal ...	..	7,495	7,495	...	7,495	7,135	...

(a) Includes Rs. 2,02,284 on account of Dhundi.

(b) As Form VIII is not now received, hence these figures are not available.

IV C.

STATEMENT SHOWING THE FINANCIAL RESULTS OF THE IRRIGATION WORKS IN THE PUNJAB PROVINCE FOR THE YEAR 1921-22 BASED ON ASSESSMENTS OF THE YEAR 1921-22 AND FINANCIAL RESULTS OF THE OPERATIONS FOR THE YEAR ENDING 31st MARCH, 1922.

IRRIGATION WORKS.	Capital outlay, Direct and Indirect to end of the year.	REVENUE ASSESSED DURING THE YEAR.									Working expenses Direct and Indirect	Net assessed revenue of the year.	Percentage on Capital outlay to end of the year.
		DIRECT ASSESSED RECEIPTS.							Indirect Receipts.	Grand Total.			
		Occupiers' rates.	Owners' rates.	Plantation.	Water power.	Navigation.	Miscellaneous.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A—IRRIGATION PRODUCTIVE WORKS.													
Western Jumna Canal ...	1,53,77,235	30,72,763	...	18,310	4,169	1,65,310	17,001	33,04,039	2,17,006	35,21,000	18,16,322	17,67,374	0.20
Sirhind Canal ...	2,52,34,009	49,01,041	...	31,221	1,80,513	18,102	2,15,603	53,40,002	1,20,077	51,60,709	16,62,070	30,14,096	16.03
Upper Bari Doab Canal ...	2,17,07,109	46,45,627	...	44,323	1,67,711	2,004	70,004	49,34,600	20,23,091	69,57,751	10,09,760	49,47,001	23.45
Lower Bari Doab Canal ...	2,50,74,433	50,17,632	...	2,631	1,600	...	1,12,001	31,31,300	20,32,499	51,63,801	20,06,800	31,60,001	19.90
Upper Chenab Canal ...	3,60,52,231	31,20,875	...	2,109	...	...	21,018	31,56,111	38,80,554	70,45,665	10,70,812	60,75,168	14.34
Lower Chenab Canal ...	5,32,25,707	98,14,623	3,081	30,375	17,373	...	1,11,633	07,03,101	67,87,003	1,68,80,161	29,01,767	1,65,81,437	40.00
Upper Jhelum Canal ...	1,13,61,617	+ 22,974 14,28,616	...	2,740	...	...	28,700	14,03,190	0,06,950	2,89,140	17,86,609	4,62,310	1.01
Lower Jhelum Canal ...	1,79,39,712	26,06,202	...	16,770	56,403	...	27,735	30,01,170	16,03,051	46,04,227	14,66,509	32,03,028	17.9
Upper Sutlej Inundation Canals ...	18,20,777	6,62,000	...	3,041	...	...	5,001	6,15,025	2,67,100	8,82,125	0,01,302	1,00,833	8.70
Sidhnai Inundation Canal ...	13,30,743	2,80,000	...	2,430	...	...	2,165	2,81,687	1,21,821	4,00,158	2,08,750	2,02,723	16.23
Indus " " ...	29,73,787	2,60,408	...	7,291	...	...	1,60,674	4,73,273	3,10,700	7,80,003	7,82,173	7,800	0.28
Central Workshop ...	11,65,861	...	...	...	...	...	1,52,095	1,52,095	...	1,52,095	77,921	75,074	5.12
Sutlej Valley Project ...	1,77,207	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	22,72,10,530	3,31,34,684	0,081	1,50,213	4,33,700	1,74,800	0,72,050	3,55,61,020	2,01,41,297	5,57,25,316	1,72,22,810	3,35,03,000	18.95
UNPRODUCTIVE WORKS.													
Shahpur Canal (Imperial) ...	2,35,021	60,401	...	...	...	...	...	60,401	13,303	73,707	60,523	-10,766	-7.15
Ghaggar Canals ...	3,97,673	12,074	...	4	...	...	...	12,078	...	12,078	23,803	-15,835	4.00
Total ...	6,12,603	73,378	...	4	...	...	...	73,992	13,303	87,107	1,10,386	-31,070	5.22
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
Lower Sutlej Inundation Canals ...	...	2,81,778	...	2,007	...	...	1,307	2,85,672	2,60,370	7,46,213	4,03,341	1,41,801	...
Chenab Inundation Canals ...	...	1,43,463	...	0,370	...	...	678	1,60,411	1,42,084	2,93,405	1,67,127	1,26,378	...
Muzaffargarh Inundation Canals ...	...	2,31,360	...	17,602	...	...	2,319	2,61,280	3,76,539	6,22,127	4,31,703	2,00,834	...
Shahpur Canal (Provincial) ...	...	43,616	...	83	...	...	22	43,160	7,017	60,167	67,811	-17,144	...
Total ...	...	6,00,656	...	20,762	...	...	4,316	7,30,723	7,80,310	15,10,641	10,69,673	4,51,300	...
CONTRIBUTION.													
Western Jumna Canal, Sirhind Branch ...	11,63,972	3,36,406	...	...	...	...	4,325	3,40,631	...	3,40,631	1,23,236	2,17,401	18.2
Sirhind Canal ...	1,47,60,713	29,48,100	...	21,850	1,02,731	8,861	49,080	31,96,301	...	31,96,301	4,55,251	26,76,060	18.61
Ghaggar Canal ...	2,00,401	10,833	...	...	...	...	...	10,803	...	10,803	17,693	-7,010	-2.14
Sutlej Valley Project ...	2,30,221	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,60,70,810	32,06,408	...	21,680	1,02,741	8,861	52,005	34,91,733	...	34,91,733	5,06,171	28,55,861	18.00

* Figures reported by the Bikaner State.

† Includes Rs. 10,602 spent by the Bikaner State.

STATEMENT OF TRAFFIC ON CANALS IN THE PUNJAB DURING THE YEAR 1921-22.

Particulars.					Western Jamna Canal.	Sirhind Canal.
Length of Channel open for navigation ... Miles					121	142
Receipts—						
Tollage on private boats Rs.					42	2,064
" " Government boats ... .. "					...	..
" " rafts "					1,56,278	18,326
Carrying operations or transport service—						
Hire of Government boats ... .. "					...	...
Refund of revenue ... .. "					...	...
Total receipts					1,56,320	20,390
Maintenance charges, including special Navigation Establishment ..					2,264	1,717
Net revenue of year					1,54,056	18,673
Total number of boats plying cargo ... ..					...	...
" " " " passengers ... ..					...	...
Total registered tonnage cargo ... ..					..	...
" " " passengers ... ..					...	...
Ton mileage, Up (a) ... ..					...	...
Down ... ..					...	...
Total ... ..					...	...
Estimated value of cargoes, Up (a) Rs.					...	...
" " " Down ... .. "					...	...
Total ... ..					...	...
Number of passengers ... ..					...	30,393
Rafts, Up C. ft.					4,745,048	1,710,312
" Down "					75,057	...
Total					48,20,105	17,10,312
Estimated value of rafts Rs.					99,86,258	18,87, '51
Tollage on boats per ton per mile (a) ... ..					...	...
" " rafts per 100 c.ft.					3-20	...

(a) Details of boat traffic are not recorded (Government of India, Public Works Department, No. 74-1, d. e 1 22nd April 1892).

II D.

DESCRIPTION AND QUANTITIES OF RAFT TRAFFIC ON CANALS IN THE PUNJAB DURING THE YEAR 1921-22.

Particulars.	WESTERN JUMNA CANAL.						SIRHIND CANAL.						TOTAL.					
	TOTAL.			PRIVATE.			TOTAL.			PRIVATE.			TOTAL.			PRIVATE.		
	Quantity in tons			Value.	Quantity.	Value.	Quantity in tons.			Value.	Quantity.	Value.	Quantity in tons.			Value.	Quantity.	Value.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																		
RAFTS.	Up.	Down.	Total.	Ra.	Tons.	Ra.	Up.	Down	Total	Ra.	Tons.	Ra.	Up.	Down.	Total.	Ra.	Tons.	Ra.
Timber in logs, round and squared	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sleepers, broad gauge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" metre "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scantlings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bamboos and reeds	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Firewood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	84,738	683	85,396	99,36,266	85,396	99,36,263	...	30,312	30,312	17,87,351	14,865	8,45,759	84,738	30,975	1,15,708	1,17,23,619	100,261	1,07,82,027

NOTE.—According to the new system details under the Western Jumna Canal cannot be filled in.

I E with Appendix A.

STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN THE PUNJAB DURING THE YEAR 1921-22.

NAMES OF CANALS.	AREA IRRIGATED IN ACRES.										AVERAGE DISCHARGE IN CUSECS.										AREA IRRIGATED PER CUSEC.				
	Kharif.					Rabi.					TOTAL.		Flow.	Lift	DOUBLED CROPPED.		AT HEAD / 1000 VOLUME R-CAPED.		AT DISTRIBUTARY HEADS.		AT HEAD / 1000 VOLUME R-CAPED.		AT DISTRIBUTARY HEADS.		
	Irrigated.		Assessed.		Assessed.	Irrigated.		Assessed.		Assessed.	Lift	Area irrigated.			Percent- age of area irrigated.	12	13	14	15	16	17	18	19	20	21
	2	3	4	5		6	7	8	9																	10	11
	I.																								
I.--IRRIGATION CAPITAL WORKS.																									
Produced.																									
Western Jammu Canal (including Sirsa Branch British and Patiala)																									
Sindh Canal (British)																									
" " (Patiala, Nabha and Jind States).																									
Upper Bari Doab Canal																									
Lower Bari Doab Canal																									
Upper Chenab Canal																									
Lower Chenab Canal																									
Upper Jhelum Canal																									
Lower Jhelum Canal																									
Upper Sutlej Canals																									
Sindh Canals																									
Indus Inundation Canals																									
Total																									
Unproductive.																									
Shahpur (Imperial) Inundation Canals																									
Ghaggar Inundation Canals (British)																									
" " (Bikaner)																									
Total																									
II.--NON-CAPITAL WORKS.																									
Lower Sutlej Inundation Canals																									
Chenab Inundation Canals																									
Muzaffargarh Inundation Canals																									
Shahpur (Provincial) Inundation Canals																									
Total																									

APPENDIX A TO STATEMENT I. E.

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1921-22.

CAUSE OF REMISSION	KHARIF, 1921.				RABI, 1921-22.			
	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.
1	2	3	4	5	6	7	8	9
WESTERN JUMNA CANAL.								
1. Wrong assessment	...	78	...	...	...	236	...	...
2. Escape irrigation
3. Under Tenancy Rules	...	1	...	...	...	1	...	...
4. Short supply	...	935	...	...	...	948	...	...
5. Hail
6. Frost
7. High wind	...	12	...	...	...	2	...	...
8. Flooding { (a) by heavy rain (b) from canal	...	356	...	...	...	27	...	...
9. Rats	...	31	...	...	...	7	...	...
10. Locusts
11. Other insects and blight	...	613	...	...	...	...	...	...
12. Bad germination or cultivation	...	390	...	...	...	290	...	...
13. Bad soil	...	21	...	...	...	232	...	...
14. High land	39	...	...
15. Miscellaneous	...	115	...	...	...	99	...	...
Total	317,328	2,552	320,880	0.79	533,102	1,881	534,983	0.35
SIRHIND CANAL (IMPERIAL).								
1. Wrong assessment	1	...	...
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	...	725	...	...	...	...	...	...
5. Hail	...	132	...	...	...	2,679	...	...
6. Frost
7. High wind	...	45	...	...	...	...	...	...
8. Flooding { (a) by heavy rain (b) from canal	...	14	...	...	...	2	...	...
9. Rats	11	...	...
10. Locusts	...	3	...	...	...	...	...	...
11. Other insects and blight	...	2,382	...	...	...	...	...	...
12. Bad germination or cultivation	...	15	...	...	...	18	...	...
13. Bad soil	321	...	...
14. High land
15. Miscellaneous	...	312	...	...	...	301	...	...
Total	522,515	3,625	526,143	0.69	704,145	3,828	707,476	0.47
UPPER BARI DOAB CANAL.								
1. Wrong assessment	...	5	...	...	...	1	...	...
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	...	770	...	...	...	...	...	...
5. Hail	...	285	...	...	...	2,179	...	...
6. Frost
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	...	223	...	...	...	1,453	...	...
9. Rats	...	2	...	...	...	56	...	...
10. Locusts	...	25	...	...	...	...	...	...
11. Other insects and blight	...	9,776	...	...	...	787	...	...
12. Bad germination or cultivation	...	3	...	...	...	101	...	...
13. Bad soil	...	8	...	...	...	183	...	...
14. High land
15. Miscellaneous	...	106	...	...	...	174	...	...
Total	603,248	11,211	614,459	1.82	724,078	4,934	729,012	0.68

(a) Detail of area remitted—

In the five Divisions	...	...	...	...	2,552	1,887
In Patiala State	...	...	...	...	...	24
In Jind State	...	...	...	...	...	...
Total	...	...	...	...	2,552	1,881

**STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED
DURING THE YEAR 1921-22—CONTINUED.**

CAUSE OF REMISSION.	KHARIF, 1921.				RABI, 1921-22.			
	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.
1	2	3	4	5	6	7	8	9
LOWER BARI DOAB CANAL.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules	57,839	...	...	...	50,917	...	...
4. Short supply	313	...	...	...	17	...	...
5. Hail
6. Frost
7. High wind
8. Flooding { (a) by heavy rain { (b) from canal	...	4	...	...	...	...	...	...
9. Rate
10. Locusts
11. Other insects and blight	33,235	...	...	...	...	...	...
12. Bad germination or cultivation	3,067	...	...	...	1,180	...	...
13. Bad soil	19,170	...	...	...	23,120	...	...
14. High land	45	...	...	...	...	...	...
15. Miscellaneous	8,274	...	...	...	16,440	...	...
Total ...	372,552	121,050	454,602	56.53	417,180	121,866	539,046	29.21
UPPER CHENAB CANAL.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	1,887	...	...	...	595	...	...
5. Hail	2,154	...	...	...	...	...	...
6. Frost
7. High wind
8. Flooding { (a) by heavy rain { (b) from canal	...	120	...	...	...	4	...	...
9. Rate	15	...	...	...	...	...	...
10. Locusts	1	...	...	...	...	...	...
11. Other insects and blight	1,473	...	...	...	...	...	...
12. Bad germination or cultivation	1,218	...	...	...	707	...	...
13. Bad soil	92	...	...	...	882	...	...
14. High land
15. Miscellaneous	3,762	...	...	...	921	...	...
Total ...	329,492	11,762	311,254	3.45	311,035	2,112	313,147	0.69
LOWER CHENAB CANAL.								
1. Wrong assessment	1	...	...
2. Escape irrigation
3. Under Tenancy Rules	16	...	...	...	7	...	...
4. Short supply	138	...	...	...	155	...	...
5. Hail	19	...	...
6. Frost	25	...	...
7. High wind	4	...	...	...	...	...	...
8. Flooding { (a) by heavy rain { (b) from canal	...	28	...	...	...	...	...	...
9. Rate	38	...	...	...	9	...	...
10. Locusts
11. Other insects and blight	6,462	...	...	...	208	...	...
12. Bad germination or cultivation	819	...	...	...	1,525	...	...
13. Bad soil	539	...	...	...	1,410	...	...
14. High land	14	...	...
15. Miscellaneous	1,216	...	...	...	4,220	...	...
Total ...	845,172	9,277	854,449	1.09	1,698,892	7,801	1,706,693	0.44

**STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED
DURING THE YEAR 1921-22—CONTINUED.**

CAUSE OF REMISSION.	KHARIF, 1921.				RABI, 1921-22.			
	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.
1	2	3	4	5	6	7	8	9
	Acres.	Acres.	Acres.		Acres.	Acres.	Acres.	
UPPER JHELM CANAL.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules	1,889	...	...	...	2,508	...	...
4. Short supply	116	...	...	...	97	...	...
5. Hail	9	...	...	...	...	...	...
6. Frost
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	444	...	...	...	12	...	...
9. Rats	24	...	...
10. Locusts	61	...	...	...	...	...	...
11. Other insects and blight	322	...	...	...	97	...	...
12. Bad germination or cultivation	279	...	...	...	265	...	...
13. Bad soil	114	...	...	...	500	...	...
14. High land	5	...	...
15. Miscellaneous	87	...	...	...	184	...	...
16. Perpetual remission
17. Deg Nallah
Total ...	159,397	3,635	162,032	2.24	192,895	3,640	196,535	1.85
LOWER JHELM CANAL.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules	1,041	...	...	...	408	...	...
4. Short supply	62	...	...	...	...	...	...
5. Hail	309	...	...	...	...	...	...
6. Frost
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	809	...	...	...	1	...	...
9. Rats
10. Locusts
11. Other insects and blight	34	...	...	...	...	...	...
12. Bad germination or cultivation	582	...	...	...	249	...	...
13. Bad soil	70	...	...	...	...	...	...
14. High land
15. Miscellaneous	472	...	...	...	836	...	...
Total ...	286,341	3,359	289,700	1.16	581,001	1,514	582,515	0.26
UPPER SUTLEJ INUNDATION CANALS.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	1,396	...	...	...	...	...	...
5. Hail
6. Frost
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	433	...	...	...	...	...	...
9. Rats
10. Locusts
11. Other insects and blight	670	...	...	...	...	...	...
12. Bad germination or cultivation
13. Bad soil	81	...	...	...	...	...	...
14. High land
15. Miscellaneous
Total ...	168,002	2,583	170,585	1.51	196,365	...	196,365	...

1. The first part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

2. The second part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

Name	Position	Term	Age	Education	Experience	Other
John A. Smith	President	1910-1912	45	B.S.	10 years	
James B. Jones	Vice President	1910-1912	40	B.S.	8 years	
William C. Brown	Secretary	1910-1912	35	B.S.	5 years	
Robert D. White	Treasurer	1910-1912	30	B.S.	3 years	
Charles E. Green	Director	1910-1912	42	B.S.	12 years	
Frank F. Black	Director	1910-1912	38	B.S.	10 years	
George G. Gray	Director	1910-1912	44	B.S.	15 years	
Henry H. Hall	Director	1910-1912	36	B.S.	7 years	
Isaac I. Hill	Director	1910-1912	41	B.S.	11 years	
Joseph J. King	Director	1910-1912	39	B.S.	9 years	
Samuel L. Lee	Director	1910-1912	43	B.S.	13 years	
Thomas M. Martin	Director	1910-1912	37	B.S.	6 years	
William N. Nash	Director	1910-1912	46	B.S.	14 years	
Abraham O. Olsen	Director	1910-1912	34	B.S.	4 years	
Benjamin P. Parker	Director	1910-1912	48	B.S.	16 years	
Charles Q. Quinn	Director	1910-1912	32	B.S.	2 years	
David R. Reed	Director	1910-1912	47	B.S.	17 years	
Edward S. Smith	Director	1910-1912	31	B.S.	1 year	
Frederick T. Taylor	Director	1910-1912	49	B.S.	18 years	
George U. Underhill	Director	1910-1912	29	B.S.	0 years	
Harold V. Vance	Director	1910-1912	50	B.S.	19 years	
Isabel W. Ward	Director	1910-1912	28	B.S.	-1 years	
James X. Xavier	Director	1910-1912	51	B.S.	20 years	
John Y. Young	Director	1910-1912	27	B.S.	-2 years	
Joseph Z. Zimmerman	Director	1910-1912	52	B.S.	21 years	

3. The third part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

4. The fourth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

5. The fifth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

6. The sixth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

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8. The eighth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

9. The ninth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

10. The tenth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

11. The eleventh part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

12. The twelfth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

13. The thirteenth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

14. The fourteenth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

15. The fifteenth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

**STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED
DURING THE YEAR 1921-22—CONTINUED.**

CAUSE OF REMISSION.	KHANUJ, 1921.				RANI, 1921-22.			
	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.	Area assessed.	Area remitted.	Total area irrigated.	Percentage remitted.
1	2	3	4	5	6	7	8	9
	Acrea.	Acrea.	Acrea.		Acrea.	Acrea.	Acrea.	
LOWER SUTLEJ INUNDATION CANALS.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	9,184	...	...	...	...	...	...
5. Hail	291	...	...	...	...	...	...
6. Frost	934	...	...
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	1,256 98	...	...	...	8	...	...
9. Rats
10. Locusts
11. Other insects and blight	52	...	...	...	44	...	...
12. Bad germination or cultivation	468	...	...
13. Bad soil	18,701	...	...	...	16,461	...	...
14. High land
15. Miscellaneous	881	...	...	...	6,379	...	...
Total ...	120,177	80,681	89,845	25.41	162,075	22,292	189,768	19.75
MUZAFFARGARH INUNDATION CANALS.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	9,990	...	...	...	...	...	...
5. Hail	178	...	...
6. Frost	2,725	...	...
7. High wind
8. Flooding { (a) by heavy rain (b) from canal	6,216 6,092	...	...	...	163 34	...	...
9. Rats
10. Locusts
11. Other insects and blight	22	...	...	...	885	...	...
12. Bad germination or cultivation	178	...	...	...	289	...	...
13. Bad soil	5,981	...	...	...	10,283	...	...
14. High land
15. Miscellaneous	97	...	...	...	2,733	...	...
Total ...	142,820	27,420	115,400	10.20	198,462	16,695	176,767	8.63
SHAHNUR IMPERIAL CANALS.								
1. Wrong assessment
2. Escape irrigation
3. Under Tenancy Rules
4. Short supply	4	...	...	...	224	...	...
5. Hail
6. Frost
7. High wind
8. Flooding { (a) by heavy rain (b) from canal
9. Rats	87	...	...	...	...	...	...
10. Locusts
11. Other insects and blight
12. Bad germination or cultivation
13. Bad soil
14. High land
15. Miscellaneous	4	...	...	...	...	...	...
Total ...	9,603	45	9,608	0.47	17,304	224	17,618	1.27

$\frac{d}{dt} \left(\frac{1}{2} m v^2 + \frac{1}{2} I \omega^2 \right) = \tau \cdot \omega$

$$\begin{aligned}
 \text{H}_2\text{O} &= 18.015 \text{ g/mol} \\
 \text{H}_2 &= 2.016 \text{ g/mol} \\
 \text{O}_2 &= 31.998 \text{ g/mol} \\
 \text{CO}_2 &= 44.01 \text{ g/mol} \\
 \text{CH}_4 &= 16.04 \text{ g/mol} \\
 \text{C}_2\text{H}_6 &= 30.07 \text{ g/mol} \\
 \text{C}_3\text{H}_8 &= 44.1 \text{ g/mol} \\
 \text{C}_4\text{H}_{10} &= 58.12 \text{ g/mol} \\
 \text{C}_5\text{H}_{12} &= 72.15 \text{ g/mol} \\
 \text{C}_6\text{H}_{14} &= 86.17 \text{ g/mol} \\
 \text{C}_7\text{H}_{16} &= 100.2 \text{ g/mol} \\
 \text{C}_8\text{H}_{18} &= 114.23 \text{ g/mol} \\
 \text{C}_9\text{H}_{20} &= 128.26 \text{ g/mol} \\
 \text{C}_{10}\text{H}_{22} &= 142.29 \text{ g/mol} \\
 \text{C}_{11}\text{H}_{24} &= 156.32 \text{ g/mol} \\
 \text{C}_{12}\text{H}_{26} &= 170.35 \text{ g/mol} \\
 \text{C}_{13}\text{H}_{28} &= 184.38 \text{ g/mol} \\
 \text{C}_{14}\text{H}_{30} &= 198.41 \text{ g/mol} \\
 \text{C}_{15}\text{H}_{32} &= 212.44 \text{ g/mol} \\
 \text{C}_{16}\text{H}_{34} &= 226.47 \text{ g/mol} \\
 \text{C}_{17}\text{H}_{36} &= 240.50 \text{ g/mol} \\
 \text{C}_{18}\text{H}_{38} &= 254.53 \text{ g/mol} \\
 \text{C}_{19}\text{H}_{40} &= 268.56 \text{ g/mol} \\
 \text{C}_{20}\text{H}_{42} &= 282.59 \text{ g/mol} \\
 \text{C}_{21}\text{H}_{44} &= 296.62 \text{ g/mol} \\
 \text{C}_{22}\text{H}_{46} &= 310.65 \text{ g/mol} \\
 \text{C}_{23}\text{H}_{48} &= 324.68 \text{ g/mol} \\
 \text{C}_{24}\text{H}_{50} &= 338.71 \text{ g/mol} \\
 \text{C}_{25}\text{H}_{52} &= 352.74 \text{ g/mol} \\
 \text{C}_{26}\text{H}_{54} &= 366.77 \text{ g/mol} \\
 \text{C}_{27}\text{H}_{56} &= 380.80 \text{ g/mol} \\
 \text{C}_{28}\text{H}_{58} &= 394.83 \text{ g/mol} \\
 \text{C}_{29}\text{H}_{60} &= 408.86 \text{ g/mol} \\
 \text{C}_{30}\text{H}_{62} &= 422.89 \text{ g/mol} \\
 \text{C}_{31}\text{H}_{64} &= 436.92 \text{ g/mol} \\
 \text{C}_{32}\text{H}_{66} &= 450.95 \text{ g/mol} \\
 \text{C}_{33}\text{H}_{68} &= 464.98 \text{ g/mol} \\
 \text{C}_{34}\text{H}_{70} &= 479.01 \text{ g/mol} \\
 \text{C}_{35}\text{H}_{72} &= 493.04 \text{ g/mol} \\
 \text{C}_{36}\text{H}_{74} &= 507.07 \text{ g/mol} \\
 \text{C}_{37}\text{H}_{76} &= 521.10 \text{ g/mol} \\
 \text{C}_{38}\text{H}_{78} &= 535.13 \text{ g/mol} \\
 \text{C}_{39}\text{H}_{80} &= 549.16 \text{ g/mol} \\
 \text{C}_{40}\text{H}_{82} &= 563.19 \text{ g/mol} \\
 \text{C}_{41}\text{H}_{84} &= 577.22 \text{ g/mol} \\
 \text{C}_{42}\text{H}_{86} &= 591.25 \text{ g/mol} \\
 \text{C}_{43}\text{H}_{88} &= 605.28 \text{ g/mol} \\
 \text{C}_{44}\text{H}_{90} &= 619.31 \text{ g/mol} \\
 \text{C}_{45}\text{H}_{92} &= 633.34 \text{ g/mol} \\
 \text{C}_{46}\text{H}_{94} &= 647.37 \text{ g/mol} \\
 \text{C}_{47}\text{H}_{96} &= 661.40 \text{ g/mol} \\
 \text{C}_{48}\text{H}_{98} &= 675.43 \text{ g/mol} \\
 \text{C}_{49}\text{H}_{100} &= 689.46 \text{ g/mol} \\
 \text{C}_{50}\text{H}_{102} &= 703.49 \text{ g/mol} \\
 \text{C}_{51}\text{H}_{104} &= 717.52 \text{ g/mol} \\
 \text{C}_{52}\text{H}_{106} &= 731.55 \text{ g/mol} \\
 \text{C}_{53}\text{H}_{108} &= 745.58 \text{ g/mol} \\
 \text{C}_{54}\text{H}_{110} &= 759.61 \text{ g/mol} \\
 \text{C}_{55}\text{H}_{112} &= 773.64 \text{ g/mol} \\
 \text{C}_{56}\text{H}_{114} &= 787.67 \text{ g/mol} \\
 \text{C}_{57}\text{H}_{116} &= 801.70 \text{ g/mol} \\
 \text{C}_{58}\text{H}_{118} &= 815.73 \text{ g/mol} \\
 \text{C}_{59}\text{H}_{120} &= 829.76 \text{ g/mol} \\
 \text{C}_{60}\text{H}_{122} &= 843.79 \text{ g/mol} \\
 \text{C}_{61}\text{H}_{124} &= 857.82 \text{ g/mol} \\
 \text{C}_{62}\text{H}_{126} &= 871.85 \text{ g/mol} \\
 \text{C}_{63}\text{H}_{128} &= 885.88 \text{ g/mol} \\
 \text{C}_{64}\text{H}_{130} &= 899.91 \text{ g/mol} \\
 \text{C}_{65}\text{H}_{132} &= 913.94 \text{ g/mol} \\
 \text{C}_{66}\text{H}_{134} &= 927.97 \text{ g/mol} \\
 \text{C}_{67}\text{H}_{136} &= 942.00 \text{ g/mol} \\
 \text{C}_{68}\text{H}_{138} &= 956.03 \text{ g/mol} \\
 \text{C}_{69}\text{H}_{140} &= 970.06 \text{ g/mol} \\
 \text{C}_{70}\text{H}_{142} &= 984.09 \text{ g/mol} \\
 \text{C}_{71}\text{H}_{144} &= 998.12 \text{ g/mol} \\
 \text{C}_{72}\text{H}_{146} &= 1012.15 \text{ g/mol} \\
 \text{C}_{73}\text{H}_{148} &= 1026.18 \text{ g/mol} \\
 \text{C}_{74}\text{H}_{150} &= 1040.21 \text{ g/mol} \\
 \text{C}_{75}\text{H}_{152} &= 1054.24 \text{ g/mol} \\
 \text{C}_{76}\text{H}_{154} &= 1068.27 \text{ g/mol} \\
 \text{C}_{77}\text{H}_{156} &= 1082.30 \text{ g/mol} \\
 \text{C}_{78}\text{H}_{158} &= 1096.33 \text{ g/mol} \\
 \text{C}_{79}\text{H}_{160} &= 1110.36 \text{ g/mol} \\
 \text{C}_{80}\text{H}_{162} &= 1124.39 \text{ g/mol} \\
 \text{C}_{81}\text{H}_{164} &= 1138.42 \text{ g/mol} \\
 \text{C}_{82}\text{H}_{166} &= 1152.45 \text{ g/mol} \\
 \text{C}_{83}\text{H}_{168} &= 1166.48 \text{ g/mol} \\
 \text{C}_{84}\text{H}_{170} &= 1180.51 \text{ g/mol} \\
 \text{C}_{85}\text{H}_{172} &= 1194.54 \text{ g/mol} \\
 \text{C}_{86}\text{H}_{174} &= 1208.57 \text{ g/mol} \\
 \text{C}_{87}\text{H}_{176} &= 1222.60 \text{ g/mol} \\
 \text{C}_{88}\text{H}_{178} &= 1236.63 \text{ g/mol} \\
 \text{C}_{89}\text{H}_{180} &= 1250.66 \text{ g/mol} \\
 \text{C}_{90}\text{H}_{182} &= 1264.69 \text{ g/mol} \\
 \text{C}_{91}\text{H}_{184} &= 1278.72 \text{ g/mol} \\
 \text{C}_{92}\text{H}_{186} &= 1292.75 \text{ g/mol} \\
 \text{C}_{93}\text{H}_{188} &= 1306.78 \text{ g/mol} \\
 \text{C}_{94}\text{H}_{190} &= 1320.81 \text{ g/mol} \\
 \text{C}_{95}\text{H}_{192} &= 1334.84 \text{ g/mol} \\
 \text{C}_{96}\text{H}_{194} &= 1348.87 \text{ g/mol} \\
 \text{C}_{97}\text{H}_{196} &= 1362.90 \text{ g/mol} \\
 \text{C}_{98}\text{H}_{198} &= 1376.93 \text{ g/mol} \\
 \text{C}_{99}\text{H}_{200} &= 1390.96 \text{ g/mol} \\
 \text{C}_{100}\text{H}_{202} &= 1404.99 \text{ g/mol} \\
 \text{C}_{101}\text{H}_{204} &= 1419.02 \text{ g/mol} \\
 \text{C}_{102}\text{H}_{206} &= 1433.05 \text{ g/mol} \\
 \text{C}_{103}\text{H}_{208} &= 1447.08 \text{ g/mol} \\
 \text{C}_{104}\text{H}_{210} &= 1461.11 \text{ g/mol} \\
 \text{C}_{105}\text{H}_{212} &= 1475.14 \text{ g/mol} \\
 \text{C}_{106}\text{H}_{214} &= 1489.17 \text{ g/mol} \\
 \text{C}_{107}\text{H}_{216} &= 1503.20 \text{ g/mol} \\
 \text{C}_{108}\text{H}_{218} &= 1517.23 \text{ g/mol} \\
 \text{C}_{109}\text{H}_{220} &= 1531.26 \text{ g/mol} \\
 \text{C}_{110}\text{H}_{222} &= 1545.29 \text{ g/mol} \\
 \text{C}_{111}\text{H}_{224} &= 1559.32 \text{ g/mol} \\
 \text{C}_{112}\text{H}_{226} &= 1573.35 \text{ g/mol} \\
 \text{C}_{113}\text{H}_{228} &= 1587.38 \text{ g/mol} \\
 \text{C}_{114}\text{H}_{230} &= 1601.41 \text{ g/mol} \\
 \text{C}_{115}\$$

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 70

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II E.

STATEMENT SHOWING INCIDENCE OF WORKING EXPENSES AND ASSESSED WATER REVENUE ON THE CANALS IN THE PUNJAB DURING 1921-22.

| NAMES OF CANALS. | WATER RATE ASSESSED IN 1921-22. | | | | | | | Gross assessed revenue from all sources. | Working expenses, direct and indirect. | Area assessed during 1921-22. | WORKING EXPENSES. | | | COUNTRY'S RATES. | | | TOTAL WATER RATES, DIRECT AND INDIRECT. | |
|---|---|-------------|---------|---------------|-------------|-------------|----------------------------|--|--|-------------------------------|-----------------------------|--------------------|-------------------------|--------------------|-------------------------|--------------------|---|-----|
| | Average discharge of the year at annual head less volume escaped, in cuacs. | Occupiers. | Owners. | Total direct. | | Indirect. | Total direct and indirect. | | | | Per cent. on gross revenue. | Per acre assessed. | Per cuase of discharge. | Per acre assessed. | Per cuase of discharge. | Per acre assessed. | Per cuase of discharge. | |
| | | | | Ra. | Ra. | | | | | | | | | | | | | Ra. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | |
| MAJOR OR PRODUCTIVE IRRIGATION WORKS. | | | | | | | | | | | | | | | | | | |
| Western Janna Canal (including Sirsa Branch, British and Pathania). | 3,101 | 34,51,994 | ... | 34,15,194 | 2,17,998 | 36,33,192 | 35,22,636 | 10,76,756 | 85,93,3 | 50.13 | 2.32 | 637 | 1,101 | 4.0 | 4.27 | 1,172 | | |
| Sirhind Canal (British). | 3,920 | 45,90,504 | ... | 48,20,504 | 1,26,077 | 50,16,581 | 54,66,769 | 16,52,873 | 1,22,6,003 | 29.10 | 1.27 | 391 | 1,248 | 3.00 | 4.09 | 1,280 | | |
| " " (Patania, Nabha and Jind States). | 2,372 | 29,46,109 | ... | 29,46,109 | ... | 29,46,109 | 31,26,704 | 8,65,480 | 69,953 | 28.42 | 1.29 | 3.3 | 1,213 | 4.27 | 4.27 | 1,243 | | |
| Upper Bari Doab Canal. | 4,393 | 45,45,825 | ... | 45,16,628 | 20,23,035 | 65,65,713 | 69,57,752 | 9,09,760 | 1,27,328 | 27.65 | 1.44 | 435 | 1,035 | 3.42 | 4.95 | 1,103 | | |
| Lower Bari Doab Canal. | 5,003 | 30,17,632 | ... | 30,17,632 | 20,39,498 | 50,50,130 | 51,63,581 | 20,00,340 | 749,633 | 39.71 | 2.07 | 400 | 1,003 | 4.33 | 8.74 | 1,009 | | |
| Upper Chenab Canal. | 2,645 | 31,29,875 | ... | 31,29,875 | 38,69,654 | 70,19,729 | 70,45,505 | 19,97,767 | 840,647 | 27.97 | 3.09 | 745 | 1,163 | 4.89 | 10.96 | 2,084 | | |
| Lower Chenab Canal. | 6,36 | 96,09,635 | 9,064 | 96,17,719 | 87,97,003 | 1,84,04,722 | 1,84,04,722 | 1,84,04,722 | 2,544,054 | 18.11 | 1.18 | 300 | 1,151 | 3.78 | 7.23 | 2,210 | | |
| Upper Jhelum Canal. | 1,555 | 14,61,669 | ... | 14,61,669 | 6,95,950 | 21,57,619 | 21,57,619 | 17,35,809 | 351,292 | 79.34 | 4.91 | 1,117 | 1,021 | 4.16 | 6.14 | 1,388 | | |
| Lower Jhelum Canal. | 2,848 | 29,06,203 | ... | 29,06,203 | 16,93,051 | 45,99,253 | 46,94,237 | 14,35,599 | 687,342 | 3.65 | 1.71 | 229 | 1,62 | 1.65 | 2.31 | 363 | | |
| Upper Satlej Canals. | 3,818 | 6,02,990 | ... | 6,02,990 | 2,37,167 | 8,40,150 | 8,40,150 | 8,40,150 | 30,337 | 81.13 | 1.69 | 208 | 1,46 | 1.46 | 2.08 | 797 | | |
| Sidhmal Canals. | 504 | 2,60,080 | ... | 2,60,080 | 1,21,831 | 4,01,897 | 4,01,897 | 4,01,897 | 193,245 | 60.12 | 1.05 | 404 | 584 | 1.88 | 3.89 | 170 | | |
| Indus Irrigation Canals. | 3,621 | 2,96,408 | ... | 2,96,408 | 3,16,783 | 6,13,196 | 6,13,196 | 7,90,081 | 157,799 | 99.00 | 4.96 | 216 | 82 | 1.88 | 3.89 | 170 | | |
| Total | ... | 3,71,03,002 | 9,054 | 3,71,12,060 | 3,01,41,285 | 5,72,53,971 | 5,86,82,890 | 1,61,91,303 | 9,953,152 | .. | ... | ... | ... | ... | .. | ... | | |
| UNPRODUCTIVE IRRIGATION WORKS. | | | | | | | | | | | | | | | | | | |
| Shahpur (Imperial) Irrigation Canals. | 77 | 60,405 | ... | 60,405 | 13,863 | 73,768 | 73,768 | 90,523 | 2,957 | 129.71 | 3.35 | 1,176 | 784 | 2.24 | 3.74 | 959 | | |
| Ghaggar Irrigation Canals (British). | 84 | 13,974 | ... | 13,974 | ... | 12,974 | 12,974 | 28,383 | 18,668 | 222.1 | 1.55 | 311 | 154 | 0.70 | 0.70 | 154 | | |
| " " (Bikaner). | 60 | 10,803 | ... | 10,803 | ... | 16,803 | 16,803 | 17,893 | 4,009 | 161.49 | 3.98 | 368 | 216 | 2.40 | 2.10 | 216 | | |
| Total | ... | 84,182 | ... | 84,182 | 13,363 | 97,645 | 97,645 | 1,37,479 | 50,125 | .. | ... | ... | ... | ... | .. | ... | | |
| NON-CAPITAL WORKS. | | | | | | | | | | | | | | | | | | |
| Lower Satlej Irrigation Canals. | 1,671 | 2,31,778 | ... | 2,31,778 | 2,59,370 | 5,11,148 | 5,11,148 | 4,03,341 | 229,429 | 79.97 | 1.72 | 241 | 169 | 1.23 | 2.36 | 324 | | |
| Chenab Irrigation Canals. | 1,060 | 1,43,463 | ... | 1,43,463 | 1,12,994 | 2,46,457 | 2,46,457 | 1,67,137 | 113,634 | 60.96 | 1.17 | 166 | 143 | 1.26 | 2.62 | 264 | | |
| Muzaffargarh Irrigation Canals. | 4,266 | 2,31,389 | ... | 2,31,389 | 37,034 | 6,02,207 | 6,02,207 | 4,21,793 | 293,157 | 17.90 | 1.14 | 99 | 299 | 0.79 | 2.06 | 111 | | |
| Shahpur (Provincial) Irrigation Canals. | 144 | 48,045 | ... | 48,045 | 7,017 | 50,062 | 50,062 | 67,811 | 25,916 | 131.17 | 3.50 | 467 | ... | 1.6 | 1.86 | 348 | | |
| Total | ... | 6,99,055 | ... | 6,99,055 | 7,80,210 | 14,79,874 | 14,79,874 | 10,51,372 | 862,010 | .. | .. | ... | ... | ... | .. | ... | | |

* Includes Rs. 1,61,431, actually spent by the Patiala State.

† Figures reported by the Bikaner State.

‡ Includes Rs. 10,662 actually spent by the Bikaner State.

§ Includes 14,096 acres assessed by the Civil Department.

STATEMENT OF QUANTITY AND VALUE OF CROPS

| NAME OF CROPS. | | | WESTERN JUMPA CANAL. | | SIRHIND CANAL (BRITISH). | | SIRHIND CANAL (NATIVE STATES BRANCHES). | | UPPER RAJ DOW CANAL. | |
|-------------------------------|----------------|-------------------------|----------------------------|------------------|----------------------------|------------------|---|------------------|----------------------------|------------------|
| English. | Vernacular. | Scientific. | Area assessed water-rates. | Estimated value. | Area assessed water-rates. | Estimated value. | Area assessed water-rates. | Estimated value. | Area assessed water-rates. | Estimated value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | Acrea. | Rs. | Acrea. | Rs. | Acrea. | Rs. | Acrea. | Rs. |
| Cereals— | | | | | | | | | | |
| Wheat ... | Gahun | Triticum sativum | 234,150 | 2,49,60,544 | 327,616 | 3,04,68,295 | 186,477 | 1,73,39,411 | 270,215 | 2,49,19,350 |
| Barley ... | Joe | Hordeum vulgare | 32,475 | 20,92,750 | 160,000 | 76,24,163 | 83,270 | 41,77,930 | 7,116 | 3,34,405 |
| Rice ... | Jhona | Oryza sativa | 10,475 | 6,91,350 | 2 | 60 | 1,472 | 1,61,161 | 52,231 | 61,70,569 |
| Milnes ... | Malli | Zea mays | 2,312 | 1,0,191 | 68,640 | 50,3,658 | 41,767 | 9,45,091 | 73,789 | 47,32,432 |
| Oats ... | Jawi | Avena sativa | ... | ... | ... | ... | ... | ... | 9,310 | 2,70,570 |
| Mixed grain | Berra | ... | 29,134 | 8,74,029 | 1,071 | 19,020 | 10,619 | 8,18,570 | 181,632 | 53,07,820 |
| Miscellaneous | ... | ... | 600 | 15,600 | ... | ... | 2,033 | 65,630 | 3,568 | 76,400 |
| Millers and Pulses— | | | | | | | | | | |
| Great Millet | Jawar | Sorghum vulgare | 111,251 | 37,53,500 | 1,173 | 29,490 | ... | ... | ... | ... |
| Spikot Millet | Bajra | Pennisetia spicata | 23,041 | 7,14,271 | 8,825 | 80,250 | 729 | 7,290 | 0,123 | 01,220 |
| Italian Millet | Kangol | Pectaria Halli | 23 | 460 | ... | ... | 30 | 1,170 | 1,311 | 33,625 |
| ... | Mandwa | Eleusine coracana | 20 | 600 | ... | ... | ... | ... | 93 | 1,240 |
| Gram | Bawank | Pisum frumentaceum | ... | ... | ... | ... | ... | ... | 51 | 1,020 |
| Lenli | Chana | Cicer arietinum | 13,391 | 60,82,036 | 140,810 | 70,42,000 | 50,819 | 25,40,850 | 69,627 | 47,50,231 |
| ... | Masur | Vicia sativa | 4,692 | 10,810 | 251 | 0,630 | 357 | 1,0,710 | 1,691 | 47,100 |
| Pean | Bawa | Pisum sativum | 1,610 | 31,070 | 13 | 560 | 126 | 3,760 | ... | ... |
| ... | Mash | Phaseolus radiatus | 60 | 1,000 | 103 | 2,080 | 141 | 4,730 | ... | ... |
| ... | Mang | Phaseolus mungo | 13 | 200 | 26 | 1,620 | 261 | 5,270 | ... | ... |
| ... | Moh | Phaseolus mungo | 64 | 6,420 | 2,627 | 29,405 | 844 | 6,630 | 16,014 | 4,23,050 |
| Mixed Grain | Ghar | Cyanopsis psoraloides | 7,547 | 1,47,633 | 54,771 | 10,43,220 | 1,001 | 67,120 | 13,513 | 3,40,075 |
| ... | Berra | ... | 15,815 | 3,16,200 | ... | ... | ... | ... | ... | ... |
| ... | Chona | ... | ... | ... | 202 | 7,070 | ... | 3,463 | ... | ... |
| Miscellaneous | Maddal | ... | 6,601 | 87,080 | ... | ... | ... | 185 | 451 | 6,705 |
| Drugs and Spices— | | | | | | | | | | |
| Tobacco | Tamsak | Nicotiana glauca | 350 | 21,000 | 19 | 1,620 | 7 | 260 | 606 | 51,425 |
| Poppy | Post | Papaver somniferum | ... | ... | ... | ... | 2 | 120 | ... | ... |
| Aniseed and Dill | Ajwan | Psoralea ajwan | ... | ... | ... | ... | ... | ... | ... | ... |
| Fennel | Methi | Trigonella fennugreekum | 3,507 | 2,17,425 | ... | ... | ... | ... | ... | ... |
| Coriander | Dhania | Coriandrum sativum | 971 | 10,775 | 1,211 | 60,610 | 3 | 120 | 5 | 200 |
| Cumin | Zira | Commum officinale | ... | ... | ... | ... | ... | ... | ... | ... |
| Turnip | Haldi | Curcuma longa | ... | ... | ... | ... | ... | ... | ... | ... |
| Aniseed | Saunl | Pimpinella anisum | ... | ... | ... | ... | ... | ... | ... | ... |
| Miscellaneous | Kosul | ... | 165 | 2,475 | ... | ... | ... | ... | 4 | 60 |
| Fibers— | | | | | | | | | | |
| Cotton {Desi American} | Bal | Gossypium herbaceum | 74,778 | 50,63,124 | 11,560 | 0,12,600 | 23,289 | 14,07,674 | 131,762 | 61,02,344 |
| Rosella Hemp | San | Hibiscus cannabinus | 67 | 4,320 | 939 | 33,778 | ... | 4,052 | ... | 1,63,308 |
| False Hemp | Sansl | Crotalaria juncea | 1,714 | 42,870 | 4,203 | 1,28,400 | 212 | 7,200 | 2,091 | 64,430 |
| Miscellaneous | Masjkana | Saccharum munja | 015 | 28,320 | ... | ... | ... | ... | 3,202 | 90,000 |
| Dyes— | | | | | | | | | | |
| Indigo | Nil | Indigofera tinctoria | 201 | 7,323 | 33 | 1,165 | 436 | 16,260 | 3 | 160 |
| Henna | Mehndi | Lawsonia alba | ... | ... | ... | ... | ... | ... | ... | ... |
| Stilwell | Kaeturba | Carthamus tinctorius | ... | ... | ... | ... | ... | ... | ... | ... |
| Miscellaneous | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Oil-seeds— | | | | | | | | | | |
| Gingelly or Sesame | Til | Sesamum indicum | 5,093 | 2,45,713 | 775 | 51,025 | 100 | 11,323 | 5,018 | 3,64,032 |
| Rape | Sarson | Brassica campestris | 19,466 | 7,19,100 | 23,516 | 13,74,605 | 4,503 | 3,05,721 | 9,034 | 0,61,889 |
| Do. | Toria | Do. (Var. toria) | 100 | 0,570 | 304 | 20,398 | 2 | 134 | 54,122 | 39,00,794 |
| Linseed Flax | Taramira | Erucas sativa | ... | ... | 613 | 41,071 | 23 | 1,611 | 658 | 47,232 |
| Miscellaneous | Alsi | Linum usitatissimum | ... | ... | 18 | 1,072 | 10 | 1,278 | 603 | 69,582 |
| Mixed grain | Toria and gram | ... | 651 | 23,995 | ... | ... | ... | ... | 323 | 23,250 |
| Fruits and Vegetables— | | | | | | | | | | |
| Orchards | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Chillies | Miloh | Capiscum annuum | 787 | 60,800 | 184 | 18,460 | 340 | 34,000 | 460 | 32,200 |
| Melons | Khorbaza | Cucumis melo | 1,397 | 60,750 | 4,009 | 2,33,450 | 1,012 | 80,600 | 15,052 | 5,58,090 |
| Carrots | Gajar | Daucus carota | 212 | 8,431 | ... | ... | 160 | 7,050 | ... | ... |
| Onions | Halum | Lopidium sativum | 8 | 200 | 23 | 430 | 116 | 7,800 | ... | ... |
| Turnips | Poz | Allium cepa | 423 | 21,750 | ... | ... | 8 | 400 | ... | ... |
| Water-nuts | Sulgum | Brassica rapa | ... | ... | 516 | 24,625 | ... | ... | 18,234 | 7,29,560 |
| Gardens | Singhara | Trapa bicoloris | 195 | 7,800 | ... | ... | ... | ... | 7 | 420 |
| Potatoes | ... | ... | 12,605 | 12,00,500 | 678 | 67,600 | 3,560 | 2,55,000 | 11,621 | 11,52,400 |
| Vegetables | Ala | Solanum tuberosum | ... | ... | ... | ... | ... | ... | 339 | 50,000 |
| Miscellaneous | Turkari | ... | 2,239 | 1,70,660 | 4,878 | 3,41,400 | 573 | 40,110 | 8,641 | 3,37,170 |
| ... | Lehsan | ... | 178 | 3,100 | 58 | 1,590 | ... | ... | 2,871 | 83,130 |
| Yodder— | | | | | | | | | | |
| Lucerne Grass | Lusan Ghos | Medicago sativa | 043 | 37,720 | ... | ... | 167 | 3,925 | 431 | 25,680 |
| Grass | Senji | Do. Var. | 8 | 120 | 24,814 | 4,68,280 | 23,740 | 4,74,800 | 93,257 | 27,07,710 |
| Millets, etc. | Ghos | ... | 68 | 8,130 | 83 | 2,109 | 360 | 10,800 | 768 | 11,795 |
| Sugarcane | Charbi | ... | 0,460 | 1,01,725 | 356,703 | 1,06,07,700 | 218,712 | 64,11,890 | 212,020 | 63,87,690 |
| ... | Melna | ... | ... | ... | ... | ... | ... | ... | 6 | 160 |
| ... | Ganna | Saccharum officinarum | 49,053 | 1,05,35,433 | 2,749 | 0,70,756 | 7,698 | 10,25,892 | 35,877 | 72,22,181 |
| ... | Shaffal | ... | ... | ... | ... | ... | 1,834 | 11,064 | 72 | 6,090 |
| Miscellaneous | Metbra | ... | ... | ... | 45 | 920 | 074 | 10,450 | 1,658 | 33,700 |
| Total | | | | | | | | | | |
| Fallows | ... | ... | 10,259 | ... | ... | ... | ... | ... | ... | ... |
| Single watering | ... | ... | 1,420 | ... | 21,085 | ... | 3,739 | ... | 1,856 | ... |
| Plantations | ... | ... | 253 | ... | ... | ... | 781 | ... | 18,308 | ... |
| Miscellaneous | ... | ... | 13,704 | ... | ... | ... | ... | ... | 2 | ... |
| Waste of water | ... | ... | 499 | ... | ... | ... | ... | ... | ... | ... |
| Palaver | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| GRAND TOTAL | | | 850,930 | 8,71,42,190 | 1,226,663 | 8,57,61,018 | 599,865 | 3,01,79,645 | 1,927,836 | 7,70,32,630 |

IRRIGATED IN THE PUNJAB DURING THE YEAR 1921-22.

[illegible]

III E—

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED

| NAME OF CROPS. | | | SIDEWAY CANAL. | | INDUS IRRIGATION CANALS. | | SHAHPUR (IMPERIAL) IRRIGATION CANALS. | | GHAGGAR CANALS (BAITUR). | |
|-------------------------------|----------------|-----------------------|----------------------------|--------------------|----------------------------|------------------|---------------------------------------|------------------|----------------------------|------------------|
| English. | Vernacular. | Scientific. | Area assessed water-taxes. | Estimated value. | Area assessed water-taxes. | Estimated value. | Area assessed water-taxes. | Estimated value. | Area assessed water-taxes. | Estimated value. |
| 1 | 2 | 3 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | | | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. |
| Cereals— | | | | | | | | | | |
| Wheat | Gohn | Triticum sativum | 70,218 | 65,54,748 | 37,018 | 30,72,401 | 6,319 | 6,89,671 | 368 | 37,763 |
| Barley | Joe | Hordeum vulgare | 5,324 | 1,30,642 | 1,179 | 40,519 | 111 | 6,216 | 53 | 2,915 |
| Rice | Jhura | Oryza sativa | 1,333 | 84,670 | 49,657 | 22,81,233 | 20 | 2,737 | 7,275 | 2,18,250 |
| Milke | Makki | Zea mays | 1,212 | 1,01,844 | 15 | 1,312 | 82 | 4,461 | | |
| Oats | Jawa | Avena sativa | 688 | 22,610 | | | 82 | 3,280 | | |
| Mixed grain | Berra | | | | | | | | | |
| Miscellaneous | | | | | | | | | 781 | 23,430 |
| Millets and Pulses— | | | | | | | | | | |
| Great Millet | Jawar | Sorghum vulgare | 13,985 | 4,31,918 | 16,773 | 6,67,734 | 3,520 | 1,05,600 | 1,410 | 47,910 |
| Spiked Millet | Rajra | Panicum spicatum | 8,410 | 5,72,463 | 10,473 | 7,12,398 | 692 | 47,036 | 600 | 17,360 |
| Italian Millet | Kangal | Setaria italica | 110 | 2,390 | 11 | 330 | | | | |
| | Mandwa | Echinochloa crusgalli | 372 | 7,410 | | | | | | |
| | Sawak | Pennisetum frutescens | 517 | 10,310 | 1,175 | 22,100 | 15 | 260 | | |
| Gram | Chana | Cicer arietinum | 15,430 | 0,70,310 | 12,873 | 5,63,632 | 0,746 | 2,59,219 | 2,770 | 1,27,834 |
| Lentil | Masur | Lens culinaris | 291 | 5,520 | 223 | 6,690 | 169 | 2,620 | | |
| Pess | Tawan | | 167 | 3,605 | | | | | | |
| | Matkar | Pisum sativum | 547 | 10,610 | 4,709 | 1,10,970 | | | | |
| | Mash | Phaseolus radiatus | 7,337 | 2,60,725 | | | | | | |
| | Mung | Phaseolus mungo | 129 | 3,390 | 41 | 1,810 | | | | |
| | Moth | Phaseolus esculentus | 38 | 1,470 | 2,298 | 86,700 | | | | |
| | Gaar | Cynopsis psoraleidea | 1,513 | 69,110 | | | 3 | 45 | | |
| Mixed grain | Berra | | | | | | 200 | 5,000 | 142 | 2,130 |
| | Cheera | | | | 29 | 435 | | | 2,400 | 69,000 |
| | Maddal | Pauleum miliaceum | 7,703 | 1,10,835 | 53 | 1,010 | 30 | 450 | | |
| Miscellaneous | | | 2 | 30 | 141 | 2,115 | | | | |
| Drugs and Spices— | | | | | | | | | | |
| Tobacco | Tamaka | Nicotiana tabacum | 714 | 35,700 | 3,231 | 2,60,720 | 9 | 450 | | |
| Poppy | Poot | Papaver somniferum | | | | | | | | |
| Aniseed and Dhil | Ajwain | Pitcheola ajwain | | | | | | | | |
| Fennugreek | Methi | Trigonella foeniculum | | | | | | | | |
| Coriander | Dhania | Coriandrum sativum | 170 | 6,500 | 8 | 820 | | | | |
| Cumin | Zira | Cuminum officinale | | | 24 | 960 | | | 6 | 150 |
| Turneric | Haldi | Curcum longa | | | 1 | 45 | | | | |
| Aniseed | Sann | Pimpinella anisum | 1 | 60 | 321 | 16,050 | | | | |
| | Kasni | | | | | | | | | |
| Miscellaneous | | | 12 | 180 | | | | | | |
| Fibres— | | | | | | | | | | |
| Cotton (Desi) | Nu | Gossypium herbaceum | 403 | 19,227 | 0,184 | 1,49,410 | 1,019 | 30,090 | | |
| Cotton (American) | San | Gossypium hirsutum | 37 | 1,470 | 80 | 8,169 | 256 | 0,246 | | |
| Rosela H. p | Sundi | Grotelaria juinea | 23 | 680 | | | 3 | 60 | | |
| Falso Hemp | M | Saccharum munja | | | | | | | | |
| Miscellaneous | | | | | | | | | | |
| Dyes— | | | | | | | | | | |
| Indigo | Nili | Indigofera tinctoria | 10 | 570 | 3,349 | 1,33,720 | | | | |
| Henna | Mehndi | Lawsonea alba | 2 | 100 | 23 | 890 | | | | |
| Safflower | Kassumba | Carthamus tinctoria | | | | | | | | |
| Miscellaneous | | | | | | | | | | |
| Oil-seeds— | | | | | | | | | | |
| Gingelly or Sesame | Til | Sesamum indicum | 5,007 | 2,66,810 | 189 | 10,716 | 2 | 178 | | |
| Rape | Sareon | Brassica campestris | 145 | 6,430 | 203 | 11,671 | | | | |
| Do. | Toris | Do (Var. toria) | 7,747 | 4,41,679 | | | 61 | 5,696 | 2,113 | 86,563 |
| Linseed Flax | Taramira | Eruca sativa | 4,280 | 2,43,963 | | | 148 | 14,952 | 692 | 40,263 |
| | Aisi | Linum usitatissimum | 1 | 57 | 2,011 | 1,14,627 | 3 | 267 | | |
| Miscellaneous | | | | | | | | | | |
| Mixed grain | Toria and gram | | | | | | | | | |
| Fruits and Vegetables— | | | | | | | | | | |
| Orchards | | | | | | | | | | |
| Chillies | Mirch | Capricum annuum | 7 | 770 | 20 | 2,050 | | | | |
| Molous | Kharbaza | Cucumis melo | 80 | 2,000 | | | 79 | 2,370 | | |
| Carrots | Gajar | Daucus carota | | | 22 | 710 | | | | |
| Cress | Italom | Epilium sativum | | | | | 3 | 130 | | |
| Onions | Piaz | Allium cepa | 270 | 8,040 | | | | | 80 | 2,323 |
| Turnips | Paigum | Brassica rapa | 17,692 | 3,57,810 | 1,445 | 67,600 | 1,020 | 48,780 | | |
| Water-minta | Singhara | Trapa bicaloral | | | | | | | | |
| Gardens | | | 69 | 9,800 | 287 | 29,700 | 68 | 5,800 | | |
| Potatoes | Alu | Solanum tuberosum | | | | | | | | |
| Vegetables | Tarkari | | 453 | 27,180 | 820 | 67,400 | 18 | 1,200 | | |
| | Lehesu | | | | | | | | | |
| Miscellaneous | | | | | | | | | | |
| Fodder— | | | | | | | | | | |
| Lucerne Grass | Lucan Ghao | Medicago sativa | | | | | | | | |
| Grass | Sonji | Do. Var. | 1,169 | 23,760 | | | | 35 | | |
| Grass | Ghar | | 1,307 | 13,070 | 49 | 983 | | | | |
| Millets, etc. | Charhi | | 6,020 | 1,60,400 | 5,192 | 2,66,280 | 3,625 | 70,500 | | |
| | Melna | | | | | | | | | |
| Sogareanc | Ganna | Saccharum officinarum | 378 | 80,278 | 84 | 21,084 | 20 | 5,600 | | |
| | Shuftal | | | | | | | | | |
| | Methra | | 3,743 | 74,560 | 321 | 6,420 | | | | |
| Miscellaneous | | | 290 | 4,440 | 413 | 0,180 | | | | |
| Total | | | 1,83,245 | 1,05,83,671 | 1,57,799 | 86,67,811 | 20,055 | 12,97,604 | 18,653 | 6,69,830 |
| Fallows | | | | | | | | | | |
| Single watering | | | | | | | | | | |
| Plantations | | | | | | | | | | |
| Miscellaneous | | | | | | | 2 | | | |
| Waste of water | | | | | | | | | 10 | |
| Palaver | | | | | | | | | | |
| GRAND TOTAL | | | 1,83,245 | 1,05,83,671 | 1,57,799 | 86,67,811 | 20,057 | 12,97,604 | 18,669 | 6,69,840 |

[illegible]

IV E,
COMPARATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1921-22 AND 1920-21 IN THE PUNJAB.

| CIVIL DISTRICT. | OF THE CIVIL DISTRICT. | | | | Name. | Culturable area com-
manded by
Irrigation
Works in
column 6,
in acres. | Area at
present
proposed
to be
annually
irrigated by
works
specified in
column 5,
in acres. | AREA IRRIGATED, IN ACRES. | | | | RAINFALL, INCHES. | | |
|-----------------|--------------------------|----------------------------------|----------------------------------|--------------------------------|-----------|---|--|---------------------------|-------------|---------|----------|-------------------|-------|--------|
| | Total area,
in acres. | Culturable
area, in
acres. | Cultivated
area, in
acres. | 1921-22. | | | | 1920-21. | | | 1921-22. | 1920-21. | | |
| | | | | Kharif. | | | | Rabi. | Total. | Kharif. | | | Rabi. | Total. |
| 1 | 2 | 3 | 4 | 5 | (a) 6 | (a) 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| Pelhi | 377,620 | 297,007 | 231,598 | Western Jumna Canal | 68,707 | 37,113 | 12,517 | 17,552 | 29,769 | 1,030 | 25,593 | 27,35 | 1870 | |
| Rohilk | 1,429,396 | 1,326,401 | 1,18,531 | | 672,473 | 290,431 | 75,192 | 136,900 | 212,392 | 50,681 | 113,709 | 19,31 | 17,97 | |
| Karnal | 2,015,603 | 1,740,039 | 1,113,555 | | 618,111 | 245,335 | 76,239 | 121,558 | 197,811 | 162,911 | 121,771 | 23,24 | 16,91 | |
| Ambala | 1,195,042 | 877,151 | 741,101 | " | 505 | 2,193 | 1,538 | 1,296 | 2,821 | 1,538 | 1,175 | 40,61 | 39,50 | |
| Hissar | 3,317,618 | 3,165,617 | 2,710,617 | Western Jumna Canal | 51,113 | 220,737 | 97,031 | 167,113 | 261,731 | 118,713 | 90,211 | 20,25 | 6,15 | |
| | | | | Sirhind Canal | " | " | 2,251 | 341 | 2,592 | 1,896 | 2,326 | " | " | |
| | | | | Ghaggar Canals | 72,974 | 40,831 | 9,611 | 9,139 | 18,950 | 9,015 | 4,315 | 8,09 | 16,55 | |
| | | | | Total | " | " | 109,337 | 1,0,933 | 288,510 | 129,641 | 90,835 | " | " | |
| Jind State | 854,613 | 506,991 | 750,100 | Western Jumna Canal | 228,563 | 60,000 | 23,011 | 31,325 | 57,337 | 31,198 | 28,213 | 18,00 | 18,27 | |
| | | | | Sirhind Canal | " | " | 29,161 | 27,936 | (b) 51,097 | 23,153 | 31,972 | " | " | |
| | | | | Total | " | " | 49,173 | 61,262 | 111,131 | 54,119 | 60,155 | " | " | |
| Bikaner State | 4,053,821 | 3,902,838 | 1,749,361 | Western Jumna Canal | 1,762 | 400 | 3 | 70 | 79 | 212 | 31 | 470 | 3,13 | |
| | | | | Ghaggar Canals | 34,018 | 17,309 | 3,311 | 1,913 | 5,181 | 2,307 | 299 | " | 7,49 | |
| | | | | Total | 36,780 | 17,709 | 3,311 | 1,919 | 5,263 | 2,519 | 319 | " | " | |
| Patiala State | 3,704,788 | 3,439,157 | 2,913,641 | Western Jumna Canal | 179,060 | 59,301 | 33,031 | 55,571 | 88,635 | 19,878 | 29,003 | 10,10 | 16,30 | |
| | | | | Sirhind Canal | " | " | 31,251 | 399,414 | 712,355 | 230,671 | 397,199 | " | " | |
| | | | | Total | " | " | 315,002 | 155,358 | (d) 800,990 | 277,549 | 4,3,172 | " | " | |
| Kalsia State | 122,051 | 88,063 | 70,262 | Western Jumna Canal | 2,451 | 1,382 | 891 | 888 | 1,749 | 920 | 1,232 | " | " | |
| | | | | Sirhind Canal | " | " | 2,852 | 1,311 | 7,093 | 3,016 | 3,621 | " | " | |
| | | | | Total | " | " | 3,713 | 5,129 | 8,812 | 2,906 | 1,557 | " | " | |
| Indiana | 892,971 | 815,004 | 725,030 | " | " | " | 41,033 | 51,715 | 68,777 | 32,821 | 59,236 | 11,69 | 10,55 | |
| Kerorence | 2,505,200 | 2,417,856 | 2,172,861 | " | " | " | 318,155 | 411,398 | 769,161 | 238,905 | 42,297 | 0,04 | 6,19 | |
| Nabha State | 620,401 | 568,852 | 500,691 | Sirhind Canal | " | " | 62,993 | 70,190 | 142,481 | 61,800 | 74,191 | " | 9,99 | |
| Faridkot State | 108,219 | 390,153 | 371,150 | " | " | " | 63,801 | 90,551 | 154,455 | 48,020 | 85,517 | " | " | |
| Maier Kotla | " | " | " | Ditto | " | " | 2,113 | 993 | 3,112 | 1,311 | 1,163 | " | " | |
| Amritsar | 908,989 | 888,937 | 746,350 | Upper Bari Doab Canal | 527,501 | 319,038 | 197,511 | 215,050 | 413,162 | 260,020 | 29,191 | 13,57 | 19,11 | |
| Gurdaspur | 1,169,480 | 943,128 | 822,133 | " | 123,574 | 59,871 | 53,21 | 39,212 | 92,323 | 19,319 | 37,352 | 21,57 | 24,10 | |
| Lahore | 1,605,020 | 1,431,541 | 1,171,203 | Upper Bari Doab Canal | 853,594 | 692,551 | 363,926 | 411,150 | 807,476 | 356,597 | 53,1006 | 1,004 | 7,12 | |
| | | | | Upper Sutlej Irrigation Canals | 281,895 | 59,950 | 30,733 | 3,953 | 72,676 | 27,817 | 19,867 | 9,68 | 1,63 | |
| | | | | Lower Bari Doab Canal | 6,965 | 4,350 | 2,032 | 3,295 | 6,326 | 2,672 | 2,530 | 13,15 | 9,95 | |
| | | | | Total | 1,142,101 | 791,157 | 398,990 | 489,068 | 896,059 | 389,896 | 336,503 | 743,130 | " | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22.**

| Authority. | Class. | Nature of Crops. | RATE PER ACRE. | | Per |
|---|--------|---|------------------|------------------|--|
| | | | Flow. | Lift. | |
| | | WESTERN JUMNA CANAL, INCLUDING
SIRSA BRANCH. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE. | | | |
| Irrigation Branch Notifi-
cation No. 097-R. I.,
dated 30th June 1916. | I | Sugarcane | 10 0 0 | 6 0 0 | Crop. |
| | II | Rice and water-nuts | 6 8 0 | 4 0 0 | Do. |
| | III | Orchards, gardens, tobacco, poppy, drugs, vege-
tables, spices and melons. | 5 8 0 | 3 8 0 | Gardens and orchards per
half-year; the rest per
crop. |
| | III-A | Wheat | 5 0 0 | 3 4 0 | Crop. |
| | IV | Cotton fibres, dyes, oil-seeds, and all rabi crops,
except wheat, gram, masur, sonji, masha and
turnips. | 4 0 0 | 2 8 0 | Do. |
| Irrigation Branch Notifi-
cation No. 81-R. I., dated
16th January 1920. | V | Chari and all kharif crops not otherwise specified | 3 0 0 | 1 12 0 | Do. |
| | VI | Gram, masur, sonji, turnips, carrots and masha .. | 2 8 0 | 1 8 0 | Do. |
| Irrigation Branch Notifi-
cation No. 099-R. I.,
dated 11th July 1919,
and No. 0200-R. I.,
dated 16th August 1919. | VII | Crops grown on the "wad" of a previous crop
watering for ploughing not followed by any
crop in the same or next harvest :—
(a) For any number of waterings between 1st
May and 16th July. | 1 4 0 | 0 12 0 | Do. |
| | | (b) For any number of watering after 16th July | 0 8 0 | 0 4 0 | Acre. |
| | | | 1 8 0 | 0 12 0 | Do. |
| | VIII | Grass, village and District Board plantations :—
For any number of waterings in kharif season | 1 4 0 | 0 12 0 | Half-year. |
| | | For one watering in rabi season | 1 4 0 | 0 12 0 | Do. |
| | | For two or more waterings in rabi season ... | 2 8 0 | 1 8 0 | Do. |
| | | LOWER CHAUFANG NALA CANAL. | | | |
| | | OCCUPIER'S RATE. | | | |
| Irrigation Branch Notifi-
cation No. 1691-L.,
dated 27th April 1900. | I | Sugarcane, rice and water-nuts | 4 2 0 | 2 12 0 | Crop. |
| | IV | Cottons, indigo and maize | 2 8 0 | 1 10 8 | Do. |
| | V | Other kharif crops | 1 12 0 | 1 2 8 | Do. |
| | VII | Special rate.—Single watering before ploughing
for rabi followed by a crop. | 1 2 0 | 0 12 0 | Do. |
| | | SIRHIND CANAL. | | | |
| | | ZONE I. | | | |
| | | <i>All lands irrigated by the British Branches of the
Sirhind Canal with the exception of those situa-
ted in the Fazilka Tahsil of the Ferozepore
District.</i> | | | |
| Irrigation Branch Notifi-
cation No. 273-R. I.,
dated 21st December
1904. | I | Sugarcane | 12 0 0 | 6 0 0 | Crop. |
| | II | Rice, orchards, gardens, poppy, indigo, dyes,
drugs and spices, water-nuts, maize, wheat,
vegetables, except turnip. | 5 4 0 | 2 10 0 | Orchards and gardens per
half-year; the rest per
crop. |
| | III | Cotton, chillies, melons, tobacco, fibres, barley,
oil-seeds, berseem, sonji, all non-fodder crops in
kharif and rabi not specified. | 4 0 0 | 2 0 0 | Crop. |
| | IV | Bajra, jowar, chari, moth, mung, mash, gur,
chint, masur, gram, turnips, peas, and all
kharif and rabi fodder crops not specified. | 3 4 0 | 1 10 0 | Do. |
| Irrigation Branch Notifi-
cation No. 624-R. I.,
dated 12th May 1913,
and No. 0102-R. I.,
dated 11th July 1919. | V | Watering for ploughing not followed by any
crop in the same or succeeding harvest :—
(a) For any number of waterings between 1st
May and 16th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 16th July | 1 8 0 | 0 12 0 | Do. |
| | | Also crops grown on the "wad" of a previous
crop. | 1 8 0 | 0 12 0 | Crop. |
| | VI | Special rates which may be made applicable to
channels selected by the Local Government :—
A single watering before ploughing followed
by a rabi crop. | 2 4 0 | 1 2 0 | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. |
|--|--------|--|----------------|-----------|--|
| | | | Flow. | Low. | |
| | | | Rs. A. P. | Rs. A. P. | |
| SIRHIND CANAL—CONCLUDED. | | | | | |
| Zone II. | | | | | |
| <i>All lands irrigated by the British Branches of the Sirhind Canal in the Fazilka Tahsil of the Ferozepore District.</i> | | | | | |
| Irrigation Branch Notification No. 278-R.I., dated 21st December 1904. | I | Sugarcane ... | 10 0 0 | 5 0 0 | Crop. |
| | II | Rice, orchards, gardens, poppy, indigo, dyes, drugs and spices, water-nuts, maize, wheat, vegetables (except turnips). | 5 0 0 | 2 8 0 | Orchards and gardens per half-year, the rest per crop. |
| | III | Cotton, chillies, melons, tobacco, fibres, barley, oil-seeds, berseem, senji, all non-fodder crops in kharif and rabi not specified. | 3 12 0 | 1 14 0 | Crop. |
| | IV | Bajra, jowar, chiri, moth, mung, mash, guar, chinn, masur, gram, turnips, peas, and all kharif and rabi fodder crops not specified. | 3 0 0 | 1 8 0 | Do. |
| Irrigation Branch Notifications No. 824-R.I., dated 12th May 1913, and No. 0102-R.I., dated 11th July 1910. | V | Watering for ploughing not followed by any crop in the same or succeeding harvest :— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | Also crops grown on the "wadi" of a previous crop. | 1 8 0 | 0 12 0 | Crop. |
| <i>All lands irrigated by other than the British Branches of the Sirhind Canal</i> | | | | | |
| Irrigation Branch Notification No. 6616-I., dated 27th November 1886. | I | Sugarcane, rice, water-nuts ... | 7 8 0 | 5 0 0 | Crop. |
| | II | Gardens, orchards, tobacco, poppy, vegetables, indigo, maize. | 4 8 0 | 3 0 0 | Do. |
| | III | Cotton, fibres, all dyes (except indigo), all rabi crops (except gram and masur). | 3 12 0 | 2 8 0 | Do. |
| | IV | Chari, all kharif crops not specified above and rabi crops of gram and masur. | 2 10 0 | 1 12 0 | Do. |
| Irrigation Branch Notification No. 109-R.I., dated 16th January 1902.
Irrigation Branch Notifications No. 424-R.I., dated 12th May 1913, and No. 0102-R.I., dated 11th July 1910. | V | Watering for ploughing not followed by any crop in the same or succeeding harvest :— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | VI | Special rates which may be made applicable in channels selected by the Local Government :— | | | |
| | | A single watering before ploughing for rabi followed by a rabi crop. | 1 8 0 | 1 0 0 | Crop. |
| UPPER BARI DOAB CANAL. | | | | | |
| OCCUPIER'S RATE. | | | | | |
| Irrigation Branch Notification No. 2621-I., dated 10th June 1891. | I | Sugarcane and water-nuts ... | 7 1 0 | 3 8 6 | Crop. |
| | II | Rice ... | 6 0 10 | 3 0 5 | Do. |
| | III | Orchards and gardens, tobacco, poppy and other drugs, vegetables, melons. | 4 8 8 | 2 4 4 | Orchards and gardens per half-year; the rest per crop. |
| | IV | All dyes, fibres and oilseeds, all rabi crops except gram and masur. | 3 12 0 | 1 14 3 | Crop. |
| Irrigation Branch Notification No. 88-R.I., dated 10th January 1902. | V | Chari and all kharif crops not otherwise specified, rabi crops of gram and masur and all fodder crops. | 2 12 6 | 1 6 2½ | Do. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. |
|---|-----------|---|----------------|-----------|-------|
| | | | Flow. | Lift. | |
| Irrigation Branch Notification No. 02-R. I., dated 21st May 1918. | | UPPER BARI DOAB CANAL—CONTINUED. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE—continued. | | | |
| | VI | Special rates which may be made applicable to following channels selected by the Local Government:
<i>A single watering before ploughing for rabi followed by a rabi crop.</i> | 2 0 4 | 1 0 2 | Crop. |
| | Division. | Name of channel. | | | |
| | | <i>Main Line.</i> | | | |
| | | Sulampur Feeder. | | | |
| | | Fridnagar Feeder. | | | |
| | | Sajanpur Mill Channel. | | | |
| | | Sarna Distributary. | | | |
| | | Gulper Distributary. | | | |
| | | Dinanagar Navigation Channel, including Awank Distributary. | | | |
| | | Bhatois Distributary. | | | |
| | | Nannuungal Distributary. | | | |
| | | Nannuungal Mill Channel. | | | |
| First | | Ghazikot Distributary. | | | |
| | | <i>Main Line Upper.</i> | | | |
| | | Babebali Distributary. | | | |
| | | Fatehnangal Distributary. | | | |
| | | Rania Distributary. | | | |
| | | Kot Karam Chand Distributary. | | | |
| | | Kunjar Distributary. | | | |
| | | Fatehgarh Distributary. | | | |
| Second | | Kotla Distributary. | | | |
| | | Tharional Distributary. | | | |
| | | <i>Kasur Branch.</i> | | | |
| | | Jandiala Distributary. | | | |
| | | Talawan Distributary. | | | |
| | | Nauuch Distributary. | | | |
| | | <i>Sabraon Branch.</i> | | | |
| | | Rearki Distributary. | | | |
| Fourth | | Athwal Distributary. | | | |
| | | Vadala Distributary. | | | |
| | | Dhardeo Distributary. | | | |
| | | Gaggatbhar Distributary. | | | |
| | | Bhinder Distributary. | | | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB
DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|--|--------|---|----------------|-----------|--|
| | | | Flow. | Lift. | |
| | | | Rs. A. P. | Rs. A. P. | |
| | | UPPER BARI DOAB CANAL—CONCLUDED. | | | |
| | | OCCUPIER'S RATE—concluded. | | | |
| Irrigation Branch Notifications No. 8-B-R. I., dated 12th May 1913, and No. 0106 R. I., dated 11th July 1919. | VII | Watering for ploughing not followed by any crop in the same or succeeding harvest :— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | Crops grown on the "wadhi" of a previous crop | 1 0 2 | 0 9 1 | Crop |
| Irrigation Branch Notifications No. 349-R. I., dated 25th March 1907, No. 698-R. I., dated 11th December 1917, and No. 030-R. I., dated 2nd July 1908. | VIII | Village plantations or area to which the provisions of Act III of 1903 have been extended and District Board plantations within the Chhunan Colony :— | | | |
| | | For any number of waterings in the kharif season. | 1 3 4 | 0 9 8 | Half-year. |
| | | For one watering in rabi season. | 1 3 4 | 0 9 8 | Do. |
| | | For two or more waterings in rabi season | 2 11 7 | 1 6 0 | Do. |
| | | LOWER BARI DOAB CANAL. | | | |
| | | OCCUPIER'S RATE. | | | |
| Irrigation Branch Notification No. 547-R. I., dated 23rd April 1913. | I | Cane and water-nuts | 9 0 0 | 4 8 0 | Crop. |
| | II | Rice | 7 8 0 | 8 12 0 | Do. |
| | III | Orchards, gardens, tobacco, poppy, indigo, drugs, vegetables, melons and wheat. | 5 0 0 | 2 8 0 | Orchards and gardens per-half-year, rest per crop. |
| | IV | Cotton, shree, dyes (other than indigo), oil-seeds and all rabi crops except wheat, gram, masur, renji, mahun and turnips. | 4 0 0 | 2 0 0 | Crop. |
| Irrigation Branch Notification No. 101-R. I., dated 16th January 1920. | V | Chorland and all kharif crops not otherwise specified. | 3 0 0 | 1 8 0 | Do. |
| | VI | (a) Gram, masur, renji, turnips and mahun ... | 2 4 0 | 1 2 0 | (a) Crop, (b) and (c) acre. |
| | | (b) Crops grown on the "wadhi" of a previous crop. | | | |
| | | (c) Single watering before ploughing for rabi followed by a rabi crop to be applicable only to channels selected by the Local Government. | | | |
| Irrigation Branch Notification No. 0126-R. I., dated 11th July 1919. | VII | Grass village and District Board plantations :— | | | |
| | | For any number of waterings in kharif season. | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in rabi season | 1 4 0 | 0 10 9 | Do. |
| | | For two or more waterings in rabi season | 2 8 0 | 1 4 0 | Do. |
| | VIII | Watering for ploughing not followed by any crop in the same or succeeding harvest :— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | (c) Hemp (sown) and indigo which has been ploughed in as green manure before the 15th September. | 0 8 0 | 0 4 0 | Do. |
| Irrigation Branch No. 029-R. I., dated 20th June 1919. | | Special Toria and gram sown together in the same field. | 5 0 0 | 2 8 0 | Crop. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. |
|---|---------|---|-------------------------|---------------------------|--|
| | | | Flow. | Lift. | |
| | | UPPER CHENAB CANAL. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE. | | | |
| Irrigation Branch Notification No. 0123-R. I., dated 8th August 1912. | I | Cane and water-nuts | 9 0 0 | 4 8 0 | Crop. |
| | II | Rice | 7 8 0 | 3 12 0 | Do. " |
| | III | Orchards, gardens, tobacco, poppy, indigo, drugs, vegetables, melons and wheat. | 5 0 0 | 2 8 0 | Orchards and gardens per half-year; rest per crop. |
| | IV | Cotton, fibres, dyer (other than indigo), oil-seeds and all rabi crops, except wheat, gram, masur, sooji, masha and turnips. | 4 0 0 | 2 0 0 | Crop. |
| Irrigation Branch Notification No. 97-R. I., dated 18th January 1920. | V | Chari and all kharif crops not otherwise specified. | 3 0 0 | 1 8 0 | Do. |
| | VI | (a) Gram, masur, senji, turnips and masha ...
(b) Crops grown on the "wadk" of a previous crop.
(c) Single watering before ploughing for rabi followed by a rabi crop to be applicable only to following channels selected by the Local Government—
<i>On Main Line, Upper.</i>
Nokhar Branch.
Raya Branch.
<i>On Main Line, Lower.</i>
Talwandi.
Gujranwala.
Kamoki.
Metawala.
Jolonwala.
Khonpur.
Sikhawala.
Udyero.
Khokh.
Maddar.
Mangutara Minor of the Sayadwala Distributary. | 2 4 0 | 1 2 0 | (a) Crop, (b) and (c) acre. |
| Irrigation Branch Notification No. 0248-R. I., dated 20th September 1918. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Irrigation Branch Notification No. 55-R. I., dated 13th January 1918, and No. 0118-R. I., dated 11th July 1919, and No. 284-R. I., dated 12th March 1920. | VII | Grass, village and District Board plantations—
For any number of waterings in the kharif season.
For one watering in rabi season...
For two or more waterings in rabi season ... | 1 4 0
1 4 0
2 8 0 | 0 10 0
0 10 0
1 4 0 | Half-year.
Do.
Do. |
| | VIII | Watering for ploughing not followed by any crop in the same or succeeding harvest:—
(a) For any number of waterings between 1st May and 15th July.
(b) For any number of waterings after 15th July.
(c) Hemp (an), Indigo and gwara which have been ploughed as green manure before the 15th September. | 0 8 0
1 8 0
0 8 0 | 0 4 0
0 12 0
0 4 0 | Acre.
Do.
Do. |
| | | | | | |
| | | | | | |
| Irrigation Branch Notification No. 029-R. I., dated 20th June 1919 | Special | Toria and gram sown together in the same field. | 5 0 0 | 2 8 0 | Crop. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|---|--------|---|--------------------|--|--|
| | | | Flow. | Lift. | |
| | | | Rs. A. P. | Rs. A. P. | |
| | | LOWER CHENAB CANAL. | | | |
| | | OCCUPIER'S RATE. | | | |
| | | 1. <i>Applicable to—</i> | | | |
| | | (a) <i>all estates in the Gujranwala District which were established before the 1st January 1892;</i> | | | |
| | | (b) <i>all estates in the Jhang District which were established before 1st January 1892 except those which were transferred from the Montgomery to the Jhang District by Revenue and Agriculture Notification No. 270 of 4th May 1899; and such proprietary wells as are now or may hereafter be included within the boundaries of the Colony mauzas.</i> | | | |
| | | (c) <i>all estates in the Gujara and Montgomery Tahsils of the Montgomery District which were established by 1st January 1894; and</i> | | | |
| | | (d) <i>all estates in the Multan and Lahore Districts which were established before 1st April 1902.</i> | | | |
| Irrigation Branch Notification No. 017-R. I., dated 13th June 1908. | I | Sugarcane and water-nuts | 8 0 0 | 4 4 0 | Crop. |
| | II | Rice | 6 12 0 | 8 10 0 | Do. |
| | III | Orchards, gardens, tobacco, poppy, indigo, drugs, vegetables and melons. | 5 8 0 | 3 0 0 | Orchards and gardens per half-year; the rest per crop. |
| | IV | Cotton, fibres, dyes (other than indigo), oil-seeds, maize and all rabi crops (except gram and masur). | 4 4 0 | 2 6 0 | Crop. |
| Irrigation Branch Notification No. 93-R. I., dated 16th January 1920. | V | Chari, all kharif crops not otherwise specified, and gram and masur. | 3 0 0 | 1 12 0 | Do. |
| Irrigation Branch Notifications No. 636-R. I., dated 12th May 1918, and No. 0114-R. I., dated 11th July 1919. | VI | Watering for ploughing not followed by any crop in the same or succeeding harvest:— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | Also crops grown on the "wadā" of a previous crop. | 1 12 0 | 1 2 0 | Crop. |
| | VII | Single watering before ploughing for rabi followed by a rabi crop, to be applicable only to channels selected by the Local Government. | 2 4 0 | 1 6 0 | Acre. |
| | | <i>The channels selected under this class VII are—</i> | | | |
| | | Authority. | Name of Division. | Name of channel. | |
| | | Punjab Irrigation Branch Notification No. 0108-R. I., dated 11th September 1901. | Khanki Division. | Vaughl Distributary, Gajar Gola Tributary. | |
| | | Punjab Irrigation Branch Notification No. 020-R. I., dated 13th June 1903. | Lyallpur Division. | Chak Sabu Branch of the Nara Distributary and Shah Bahlol Minor of the same. | |
| | | Punjab Irrigation Branch Notification No. 95-R. I., dated 19th February 1904. | Khanki Division. | Muradian Distributary, Jagginwala Distributary, Sagar Distributary. | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of Crops. | RATE PER ACRE. | | Per |
|---|--------|---|------------------|-------------------------------------|---|
| | | | Flow. | Lift. | |
| | | LOWER CHENAB CANAL—CONTINUED. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE—continued. | | | |
| Irrigation Branch Notification No. 6141-R.I., dated 12th October 1909. | VIII | Grass:—
For any number of waterings in the kharif season. | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in the rabi season | 1 4 0 | 0 10 0 | Do. |
| | | For two or more waterings in the rabi season | 2 8 0 | 1 4 0 | Do. |
| | | 2. Applicable to estates other than those referred to in Notification No. 617-R.I., dated 13th June 1913, also c. | | | |
| Irrigation Branch Notification No. 92-R.I., dated 6th January 1922. | I | Sugarcane | 7 8 0 | 3 12 0 | Crop. |
| | II | Rice | 0 4 0 | 3 2 0 | Do. |
| | III | Orchards, gardens, tobacco, in figs, vegetables, poppy, dhania, sirsa, sunf, melons. | 5 0 0 | 2 8 0 | Orchards and gardens per half-year; the rest per crop. |
| | IV | Cotton, fibres, dyes (other than indigo), oil-seeds, maize and all rabi crops (except gram and musar). | 3 12 0 | 1 14 0 | Crop. |
| Irrigation Branch Notification No. 93-R.I., dated 16th January 1920. | V | Chart, all kharif crops not otherwise specified and gram and musar. | 2 8 0 | 1 4 0 | Do. |
| Irrigation Branch Notifications No. 636-R.I., dated 12th May 1913 and No. 6114-R.I., dated 11th July 1919. | VI | (i) Watering for ploughing not allowed by any crop in the same or succeeding harvest:—
(a) For any number of waterings between 1st May and 1st July. | 0 6 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 1st July | 1 6 0 | 0 12 0 | Do. |
| | | (c) Also crops grown on the "soak" of a previous crop. | 1 4 0 | 0 10 0 | Crop. |
| | | | | | |
| Irrigation Branch Notifications No. 6141-R.I., dated 12th October 1909, No. 313-R.I., dated 11th December 1916, No. 711-R.I., dated 11th December 1917 and No. 17-R.I., dated 11th June 1914. | VIII | Grass village plantations in Colony villages and District Board plantations in the Colony:— | | | |
| | | For any number of waterings in the kharif season. | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in the rabi season | 1 4 0 | 0 10 0 | Do. |
| | | For two or more waterings in the rabi season | 2 8 0 | 1 4 0 | Do. |
| Irrigation Branch Notification No. 120-R.I., dated 20th June 1919. | ... | Special toria and gram sown together in the same field. | 5 0 0 | 2 8 0 | Crop. |
| Irrigation Branch Notification No. 112-R.I., dated 30th January 1912. | ... | 3. Applicable from 1st April 1912 to such estates as may be selected by the Local Government and from among those irrigated from the Lower Chenab Canal to which the rates published in Notification No. 92-R.I., dated 6th January 1922, are applicable. | | | |
| Irrigation Branch Notification No. 93-R.I., dated 16th January 1920. | IV | Cotton, fibres, dyes (other than indigo), oil-seeds, maize and all rabi crops except gram and musar. | 3 0 0 | 1 12 0 | Crop. |
| | V | Chart, all kharif crop not otherwise specified and gram and musar. | 2 0 0 | 1 4 0 | Do. |
| | | List of estates selected by the Local Government under Notification No. 112-R.I., dated 30th January 1912. | | | |
| | | | | | |
| | | Division. | District. | Settlement
management
circle. | No. of Chaks
and
Branch. |
| | | Upper
Gugera. | Gujranwala | Gugera
Branch I. | 857, 159 and 152,
Gugera Branch. |
| | | Lower
Gugera. | Lyallpur... | Do. | 71 and part of 76
and 161, Gugera
Branch. |
| | | Lyallpur | Lyallpur... | Jhang
Branch I. | 107 and half of 25,
Jhang Branch. |
| | | | Jhang ... | Do. | 129, 134, 137, 141,
141, 145, 153, 154,
155 and 157,
Jhang Branch. |

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. | |
|--|---------------|--|----------------|-------------------------------|--|--|
| | | | Flow. | Lift. | | |
| Irrigation Branch Notification No. 0275-R. I., dated 26th August 1912.

Irrigation Branch Notification No. 90-R. I., dated 22nd January 1913.

Irrigation Branch Notification No. 0301-R. I., dated 21st September 1914.

Irrigation Branch Notification No. 010-R. I., dated 1st June 1915.

Irrigation Branch Notification No. 037-R. I., dated 6th June 1916. | | LOWER CHENAB CANAL—CONCLUDED. | | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE—concluded. | | | | |
| | | List of estates selected by the Local Government—concluded. | | | | |
| | | Division. | District. | Settlement assessment circle. | No. of Chaks and Branch. | |
| | | Jhang | Lyalpur | Jhang Branch II. | 311, 311, 315, 367 and 304, Jhang Branch. | |
| | | | Jhang | Ditto | 172, 173, 175, 176, 177, 187, 209, 200, 212, 215, 217, 218, 220, 227, 227, 248, 249, 257, 267, 268, 269 and 270, Jhang Branch. | |
| | | | Lyalpur | Jhang Branch III. | 307, 309, 309, 401, 402, 404, 409, 410, 411, 412, 433 and 434, Jhang Branch. | |
| | | | Jhang | Ditto | 442, 443, 443, 447, 449, 449, 450, 451 and 457, Jhang Branch. | |
| | | Lower Gogera. | Lyalpur | Gogera Branch I. | 116, 207 and 210, Gogera Branch. | |
| | | Jhang | Ditto | Jhang Branch III. | 421, 311, 319, 317, 377, 447 and 487, Jhang Branch. | |
| | | Do. | Jhang | Jhang Branch II. | 179, Jhang Branch. | |
| | | Lower Gogera | Lyalpur | Gogera Branch II. | 241, 245, 317, 329, 329, 310 and 353, Gogera Branch. | |
| | | Narala | Ditto | Ditto | 507, 501, 502, 513, 504, 504, 513, 515 and 516, Gogera Branch. | |
| | | Khanki | Gujranwala | | 11, 122 and 297, Rakh Branch. | |
| | | Upper Gogera. | Ditto | | 42, 13, 26, 37, 31, 31 and 49, Rakh Branch. | |
| | | Upper Gogera | Lyalpur | | 57, 61, 107 and 109, Rakh Branch. | |
| | | Lyalpur | Ditto | | 165, 211, 217, 218, 230 and 231, Rakh Branch. | |
| | | Jhang | Jhang | | 475, 475, 476, 479, 487, 491, 491, 490, 497, 499, 500, 501, 503 and 503, Jhang Branch. | |
| | | Narala | Lyalpur | | 557, 559, 561, 565, 567, 613, 619, 619, 621, 622 and 623, Narala Branch. | |
| | | Lower Gogera. | Ditto | | 321, Gogera Branch, Lower. | |
| | Upper Gogera. | Ditto | | 556, Gogera Branch, Upper. | | |
| | | UPPER JHELUM CANAL. | | | | |
| | | OCCUPIER'S RATE. | | | | |
| | I | Cane and water-nuts | | 9 0 0 | Crop. | |
| | II | Rice | | 7 8 0 | Do | |
| | III | Orchards, gardens, tobacco, poppy, indigo, drugs, vegetables, melons and wheat. | | 5 0 0 | Orchards and gardens per half-year, rest per crop. | |
| | IV | Cotton, fibres, dyes (other than indigo), oil-seeds, and all other crops, except wheat, gram, masoori, sonji, moine and turnips. | | 4 0 0 | Crop. | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|--|---------|---|----------------|-----------|--|
| | | | Flow. | Lift. | |
| Irrigation Branch Notification No. 105-R.I., dated 16th January 1920. | | UPPER JHELUM CANAL—CONCLUDED. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE—concluded. | | | |
| | V | Charl and all kharif crops not otherwise specified | 3 0 0 | 1 8 0 | Crop. |
| | VI | (a) Gram, masur, senji, turnips and maina ... | | | (a) Crop. |
| | | (b) Crops grown on the "wadā" of a previous crop. | | | (b) Acre. |
| | | (c) Single waterings before ploughing for rabi followed by a rabi crop to be applicable only to the following channels:— | | | (c) Do. .. |
| | | 11-R. or Machiana Kharif Distributary. | | | |
| | | 12-R. or Samanpindi Kharif Distributary. | 2 4 0 | 1 2 0 | |
| | | Main Line, Upper Jhelum Canal. 13-R. or Saraki Kharif Distributary. | | | |
| | | 14-R. or Phalia Kharif Distributary. | | | |
| Irrigation Branch Notification No. 0122-R.I., dated 11th July 1919. | | Gujrat Branch, } 2-L. or Phalia Doshaka Upper Jhelum } Kharif Distributary.
Canal.
These channels will be open only between the 1st April and 15th October, both dates inclusive. | | | |
| | VII | Grass, village and District Board plantations:— | | | |
| | | For any number of waterings in the kharif season | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in rabi season ... | 1 4 0 | 0 10 0 | Do. |
| | | For two or more waterings in rabi season ... | 2 8 0 | 1 4 0 | Do. |
| | VIII | Watering for ploughing not followed by any crop in the same or succeeding harvest:— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | (c) Hemp (saa) and indigo which have been ploughed as green manure before the 15th September. | 0 8 0 | 0 4 0 | Do. |
| Irrigation Branch Notification No. 029-R.I., dated 20th June 1919. | Special | Toria and gram sown together in the same field. | 5 0 0 | 2 8 0 | Crop. |
| | | LOWER JHELUM CANAL. | | | |
| Irrigation Branch Notification No. 07-R.I., dated 29th May 1902. | | OCCUPIER'S RATE. | | | |
| | I | Sugarcane and water-nuts ... | 10 0 0 | 5 0 0 | Crop. |
| | II | Rice ... | 6 4 0 | 3 2 0 | Do. |
| | III | Orchards, gardens, tobacco, lodigo, vegetables, drugs, poppy and melons. | 5 0 0 | 2 8 0 | Orchards and gardens per half-year; the rest per crop. |
| | IV | Cotton, fibres, dyes (other than indigo), oil-seeds, maize and all rabi crops except gram and masur. | 3 12 0 | 1 14 0 | Crop. |
| Irrigation Branch Notification No. 89-R. I., dated 10th January 1920.
Irrigation Branch Notifications No. 682-R.I., dated 12th May 1913, and No. 0110-R.I., dated 11th July 1919. | V | Charl, all other kharif crops, gram and masur, and all crops grown for fodder. | 3 8 0 | 2 4 0 | Do. |
| | VI | Watering for ploughing not followed by any crop in the same or succeeding harvest:— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | Crops grown on the "wadā" or moisture of a previous crop. | 1 4 0 | 0 10 0 | Crop. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|---|--------|---|----------------|-----------|--|
| | | | Flow. | Lift. | |
| | | | Rs. A. P. | Rs. A. P. | |
| | | LOWER JHELM CANAL—CONTINUED. | | | |
| | | OCCUPIER'S RATE—continued. | | | |
| Irrigation Branch Notifications No. 0121-R.I., dated 21st September 1903, No. 310-R.I., dated 19th December 1905, and No. 696-R.I., dated 11th December 1907. | VII | Single watering before ploughing for rabi followed by a rabi crop, to be applicable only to channels selected by the Local Government. | 2 8 0 | 1 4 0 | Crop. |
| | VIII | Grass, village plantations in Colony villages and District Board plantations in the Colony:— | | | |
| | | For any number of waterings in the kharif season. | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in the rabi season | 1 4 0 | 0 10 0 | Do. |
| | | For two or more waterings in the rabi season | 2 8 0 | 1 4 0 | Do. |
| | | <i>Applicable to—</i> | | | |
| | | (1) All villages or portions of villages in the Bhera Tahsil irrigated from the Khair Feeder or Khadir Distributary. | | | |
| | | (2) All villages in the Shahpur Tahsil except Sher Muhammatala and Wagona and except all villages or portions of villages irrigated from the Sahival Feeder including the Sahival Distributary and Gondal Distributary. | | | |
| | | (3) The following villages in the Sargodha Tahsil:— | | | |
| | | Northern Branch Chaks:— | | | |
| | | Nos. 89, 93, 94, 95, 103, 104, 105, 108, 110, 112, 115 to 174 inclusive. | | | |
| | | Southern Branch Chaks:— | | | |
| | | Nos. 60, 61, 63, 151, 152, 154, 155, 157 to 161 inclusive and Chak Jodh on the Khadir Distributary. | | | |
| Irrigation Branch Notifications No. 408-R.I., dated 20th March 1912, and No. 488-R. I., dated 8rd April 1912. | I | Sugarcane and water-nuts | 7 8 0 | 3 12 0 | Crop. |
| | II | Rice | 4 0 0 | 2 0 0 | Do. |
| | III | Orchards, gardens, indigo, vegetables, drugs and melons. | 5 0 0 | 2 8 0 | Orchards and gardens per half-year; the rest per crop. |
| | IV | Wheat | 3 4 0 | 1 10 0 | Crop. |
| | V | Cotton and oil-seeds | 3 0 0 | 1 8 0 | Do. |
| | VI | Fibres (other than cotton), dyes (other than indigo), maize and all rabi crops other than wheat, gram and masur. | 2 8 0 | 1 4 0 | Do. |
| Irrigation Branch Notification No. 89-R.I., dated 16th January 1920. | VII | Chari, all other kharif crops, gram, masur and all crops grown for fodder (including turnips). | 2 0 0 | 1 0 0 | Do. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB
DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|--|---------|---|----------------|-----------|------------|
| | | | Flow. | Lift. | |
| | | | Rs. A. P. | Rs. A. P. | |
| Irrigation Branch Notification No. 632-R. I., dated 12th May 1913, and No. 6110-R. I., dated 11th July 1919. | | LOWER JHELUM CANAL—CONCLUDED. | | | |
| | | OCCUPIER'S RATE—concluded. | | | |
| | VIII | Watering for ploughing not followed by any crop in the same or succeeding harvest :— | | | |
| | | (a) For any number of waterings between 1st May and 15th July. | 0 8 0 | 0 4 0 | Acre. |
| | | (b) For any number of waterings after 15th July. | 1 8 0 | 0 12 0 | Do. |
| | | Crops grown on "sadda" or moisture of a previous crop. | 1 4 0 | 0 10 0 | Crop. |
| | IX | Single watering before ploughing for rabi followed by arabi crop, to be applicable only to channels selected by the Local Government. | 1 8 0 | 1 4 0 | Do. |
| | X | Grass, village plantations in Colony villages and District Board plantations in the Colony— | | | |
| | | For any number of waterings in the kharif season. | 1 4 0 | 0 10 0 | Half-year. |
| | | For one watering in the rabi season | 1 4 0 | 0 10 0 | Do. |
| Irrigation Branch Notification No. 629-R. I., dated 20th June 1919. | | For two or more waterings in the rabi season | 2 8 0 | 1 4 0 | Do. |
| | Special | Toris and gram sown together in the same field | 5 0 0 | 2 8 0 | Crop. |
| | | UPPER SUTLEJ INUNDATION CANALS INCLUDING LOWER SOHAG AND PARA CANALS. | | | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>Lahore and Montgomery Districts.</i> | | | |
| | I | Rice, gardens, pepper and cane | 3 8 0 | 1 12 0 | Acre. |
| | II | Cotton, melons, til and hemp | 2 12 0 | 1 6 0 | Do. |
| | III | All other kharif crops | 1 12 0 | 0 14 0 | Do. |
| | IV | Grasses and failed rabi crops | 0 8 0 | 0 4 0 | Do. |
| | V | All other crops | 1 4 0 | 0 10 0 | Do. |
| Irrigation Branch Notification No. 439-R. I., dated 17th April 1918. | | SIDHNAI CANALS. | | | |
| | | WATER RATE. | | | |
| | | <i>Kabirwala and Multan Tahsils.</i> | | | |
| | | | Rs. A. P. | | |
| | I | Rice, fruits and vegetables, pepper, cotton, til sugarcane wheat and tobacco. | 3 5 0 | | |
| | II | Other kharif crops | 2 6 0 | | |
| | III | Other rabi crops | 2 2 0 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Punjab Civil (Revenue) Department letter No. 249, dated 11th December 1899. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | NOTE.—"Lift" rate to be half the "flow" rate. | | | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Clos. | Nature of crops. | RATE PER ACRE. | | Per |
|---|-------|---|------------------|------------------|-----------------------|
| | | | Flow. | Lift. | |
| | | LOWER SUTLEJ INUNDATION CANALS. | Rs. A. P. | Rs. A. P. | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>Multan District.</i> | | | |
| | | <i>Mailsi Canals and Branches, Muhammadwah-Sardarwah and Branches; Bahawalwah, Lodhran and Branches.</i> | | | |
| Irrigation Branch Notification No. 1360-R.I., dated 16th November 1921. | I | Rice, gardens, pepper and sugarcane ... | 3 0 0 | 2 4 0 | Acre of matured crop. |
| | II | Cotton and til ... | 2 4 0 | 1 11 0 | Ditto. |
| | III | Other kharif crops ... | 1 12 0 | 1 5 0 | Ditto. |
| | IV | Rabi crops ... | 1 2 0 | 0 13 0 | Ditto. |
| | | NOTE.—Irrigation on grass land may be assessed at half rabi rates at the discretion of the Deputy Commissioner. | | | |
| | | CHENAB INUNDATION CANALS. | | | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>Gajjuhatta, Sikandarabad, Sitandarah and Bilochanwah Canals.</i> | | | |
| Irrigation Branch Notification No. 1366-R.I., dated 16th November 1921. | I | Rice, gardens, pepper and sugarcane ... | 3 0 0 | 2 4 0 | Acre of matured crop. |
| | II | Cotton and til ... | 2 4 0 | 1 11 0 | Ditto. |
| | III | Other kharif crops ... | 1 12 0 | 1 5 0 | Ditto. |
| | IV | Rabi crops ... | 1 2 0 | 0 13 0 | Ditto. |
| | | NOTE.—(a) Irrigation on grass lands may be assessed at half rabi rates at the discretion of the Deputy Commissioner. | | | |
| | | (b) No occupier's rate will be charged for crops irrigated by river spill alone or river and canal spill mixed, but the above rates will be charged for crops irrigated from canal spill alone. | | | |
| | | <i>Mattihal, Daurana, Larcana and Wali Muhammad Canals.</i> | | | |
| Irrigation Branch Notification No. 1356-R.I., dated 16th November 1921. | I | Rice, gardens and pepper ... | 3 0 0 | 2 4 0 | Acre of matured crop. |
| | | Cotton, sugarcane and til ... | 2 4 0 | 1 11 0 | Ditto. |
| | III | Other kharif crops ... | 1 12 0 | 1 5 0 | Ditto. |
| | IV | Rabi crops ... | 1 2 0 | 0 13 0 | Ditto. |
| | | NOTE.—(a) Irrigation on grass lands may be assessed at half rabi rates at the discretion of the Deputy Commissioner. | | | |
| | | (b) No occupier's rate will be charged for crops irrigated by river spill alone or river and canal spill mixed, but the above rates will be charged for crops irrigated from canal spill alone. | | | |
| | | HAJIWAH CANAL. | | | |
| Irrigation Branch Notification No. 1384-R.I., dated 16th November 1921. | | In exercise of the power conferred by Section 29 (1) of the Punjab Minor Canals Act, 1906 (Punjab Act, III of 1906), and in pursuance of the rules published in Punjab Irrigation Branch Notification No. 266-R.I., dated 16th November 1906, His Excellency the Governor in Council is pleased to direct that for all irrigation from the Hajiwah Canal the following rates shall be levied <i>per</i> acre actually matured, namely:— | | | |
| | | WATER-RATE. | | | |
| | I | Rice, gardens, pepper and sugarcane ... | 3 0 0 | 2 4 0 | |
| | II | Cotton and til ... | 2 4 0 | 1 11 0 | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. |
|---|--------|---|------------------|------------------|--|
| | | | Flow. | Lift. | |
| | | HAJIWAH CANAL—CONCLUDED. | Rs. A. P. | Rs. A. P. | |
| | | WATER RATE—concluded. | | | |
| | III | Other kharif crops | 1 12 0 | 1 5 0 | |
| | IV | Rabi crops | 1 2 0 | 0 18 0 | |
| | | Provided that on all irrigation, within the original grant of land made in the year 1850 to the late Ghulam Kadir Khan, of lands, the proprietary right in which is or may hereafter become vested— | | | |
| | | (a) in the sons of lineal descendants of the said Ghulam Kadir Khan or | | | |
| | | (b) in Mian Muhammad Khan or Hafiz Muhammad Afzal Khan, the nephews of the said Ghulam Kadir Khan or their lineal descendants; | | | |
| | | the rate per acre actually received whether in the kharif or rabi shall be limited to the following rates, namely:— | | | |
| | | Rs. A. P. | | | |
| | | Flow ... 0 12 0 per acre. | | | |
| | | Lift ... 0 9 0 .. | | | |
| | | NOTE.—The rates to be levied on lands owned by the Khans (lineal descendants of the late Ghulam Kadir Khan) will be limited to a cost of clearance and maintenance, adjustment of the accounts of which will be made in the manner explained in paragraph 6 (ii) of Punjab Government letter No. 1059-S-Rev., dated 4th July 1921, by the Senior Secretary to the Financial Commissioners, Punjab. | | | |
| Irrigation Branch Notification No. 269-R. I., dated 15th November 1926. | ... | In exercise of the power conferred by Section 29 (1) of the Punjab Minor Canals Act (Punjab Act, III of 1907), the Lieutenant-Governor is pleased to direct that the following rates shall be levied on the Hajiwah Canal in the Multan and Montgomery Districts, for the supply of water for purposes other than irrigation, viz:— | | | |
| | | <i>Purpose for which supplied.</i> | <i>Rate.</i> | | |
| | | | Rs. A. P. | | |
| | | Brick-making and first wall building ... | 0 3 0 | | 100 cubic feet. |
| | | Laying concrete or brick or stone masonry ... | 0 2 0 | | Ditto. |
| | | Metalling road | 10 0 0 | | Mile. |
| | | Water supplied in bulk... .. | 1 0 0 | | 2,500 cubic feet. |
| Irrigation Branch Notification No. 0235-R. I., dated 19th September 1926. | ... | Watering roadside or avenue trees... .. | 2 8 0
5 0 0 | | Canal mile of 5,000 feet for kharif crop.
Canal mile of 5,000 feet for rabi crop. |
| Irrigation Branch Notification No. 106-R. I., dated 30th January 1912. | ... | PROVISION.—Except within the limits of Canal Stations, Cantonments and Municipalities no charge shall be made for water used for the manufacture of bricks not subsequently burnt in a kiln or for plaster wall building if taken from a water-course or tank lawfully supplied from a canal, and no rate shall be levied for water supplied in bulk under proper authority to village tanks exclusively used for domestic purposes or for watering cattle. | | | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|--|--------|---|------------------------------------|-------------------------------------|---------------------------------------|
| | | | Flow. | Lift. | |
| | | INDUS INUNDATION CANALS. | RATE PER ACRE | | |
| | | OCCUPIER'S RATE. | On the
Katra
Canal. | On all
other
canals. | |
| | | | Rs. A. P. | Rs. A. P. | |
| Irrigation Branch Notifica-
tion No. 0876-R. I.,
dated 2nd October 1912. | I | Kharif flow | 1 8 0 | 1 0 0 | |
| | | „ Hft | 0 12 0 | 0 8 0 | |
| | II | Rabi flow | 0 12 0 | 0 8 0 | |
| | | „ Hft | 0 6 0 | 0 4 0 | |
| | | Special rate for rice in the Dera Ghazi Khan
and Jampur Tahsils:— | ... | 1 4 0 | |
| | | <i>Provided that all lands irrigated from the
Masowah Canal lying in the villages of Rori
and Rel Lodha shall be entirely exempt from
all occupier's rates and that all lands irrigated
from the said canal lying in the villages of
Mari Pachadi and Mari Darmigani shall be
subject to only half of the above-mentioned
occupier's rate.</i> | | | |
| | | <i>Provided also that when irrigation is done by
canal and torrent or canal and river flood
water mixed and would have been done in any
case without the aid of the canal, occupier's
rates shall not be charged in respect of such
irrigation. When, however, torrent or river
flood waters are carried by the canal and
managed and distributed as part of the canal
supply, the above-mentioned occupier's rates
shall be charged in respect of any irrigation
done by such water.</i> | | | |
| Irrigation Branch Notifica-
tion No. 0849-R. I.,
dated 4th October 1916. | ... | In exercise of the powers conferred by Section 75
of the Northern India Canal and Drainage Act,
VIII of 1874, as amended by Act IV of 1914,
the Lieutenant-Governor of the Punjab is
pleased to direct the publication of the follow-
ing Schedule of Rates to be charged for irriga-
tion from the Dera Ghazi Khan High Level
Supply Channel, taking out from the Manka
Canal of the Indus Inundation Canals Forces
and for the supply of water for purposes other
than Irrigation:— | Rs. A. P. | | Acre. |
| | | All crops | 6 0 0 | | |
| | | <i>Miscellaneous rates for purposes other than
irrigation.</i> | | | |
| | | Brick-making and pise wall building ... | 0 3 0 | | 100 cubic feet. |
| | | Laying concrete and brick or stone masonry ... | 0 2 0 | | Ditto. |
| | | Metalling roads | 10 0 0 | | Mile. |
| | | Water supplied in bulk | 1 0 0 | | 2,500 cubic feet. |
| | | Watering roadside or avenue trees | 5 0 0 | | Canal mile of 5,000 feet
per crop. |
| | | SHAHPUR (IMPERIAL) INUNDATION
CANALS. | | | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>For the Canals in Shahpur and Bhera
Tahsils.</i> | Rs. A. P. | Rs. A. P. | |
| Irrigation Branch Notifica-
tion No. 1879-I., dated
19th November 1894. | ... | Rice | 8 8 0 | 1 4 0 | Acre. |
| | | All other crops | 2 8 0 | 1 4 0 | Do. |
| | | unes lands | 1 4 0 | 1 4 0 | Do. |
| Irrigation Branch Notifica-
tion No. 1212-R.I., dated
21st October 1921. | ... | Any number of waterings not followed by a
crop in the same or succeeding harvest. | 1 0 0 | 1 0 0 | Do. |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONTINUED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per |
|---|--------|---|----------------|----------|-------------------------|
| | | | Flow. | Lift. | |
| | | SHANPUR (PROVINCIAL) INUNDATION CANALS. | R. A. P. | R. A. P. | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>Ranastah.</i> | | | |
| Settle rent Report, 1857—1694, paragraph 106. | I | Rice | 3 8 0 | 1 4 0 | Acres. |
| | II | All other crops | 2 8 0 | 1 4 0 | Do. |
| | III | Grass lands | 1 4 0 | 1 4 0 | Do. |
| Irrigation Branch Notification No. 1212-R.I., dated 25th October 1921. | ... | Any number of waterings not followed by a crop in the same or succeeding harvest. | 1 0 0 | 1 0 0 | Do. |
| | | <i>Corbhyntah.</i> | | | |
| | I | All crops | 1 8 0 | 0 12 0 | Acres. |
| | II | Grass lands | 0 2 0 | 0 1 0 | Do. |
| | | MUZAFFARGARH INUNDATION CANALS. | | | |
| | | OCCUPIER'S RATE. | | | |
| | | <i>Chenab Canals.</i> | | | |
| Irrigation Branch Notifications No. 552-R.I., dated 7th July 1903, and No. 100-R.I., dated 2nd February 1916. | I | Rice, gardens and pepper | 2 12 0 | 1 6 0 | Acres of matured crop. |
| | II | Cotton, sugarcane and indigo | 1 8 0 | 0 12 0 | Ditto. |
| | III | Other kharif crops | 1 2 0 | 0 9 0 | Ditto. |
| | IV | Rabi crops | 0 12 0 | 0 6 0 | Ditto. |
| Irrigation Branch Notification No. 434-R.I., dated 4th May 1907. | V | Grass lands | 0 6 0 | 0 3 0 | Ditto. |
| | | NOTE.—The rates for grass lands to be assessed at the discretion of the Deputy Commissioner. | | | |
| | | <i>Indus Canals.</i> | | | |
| Irrigation Branch Notification No. 072-R.I., dated 7th July 1903, and No. 100-R.I., dated 2nd February 1917. | I | Rice, gardens and pepper | 2 0 0 | 1 0 0 | Acres of matured crop. |
| | II | Cotton, sugarcane and indigo | 1 0 0 | 0 8 0 | Ditto. |
| | III | Other kharif crops | 1 12 0 | 0 6 0 | Ditto. |
| | IV | Rabi crops | 0 8 0 | 0 4 0 | Ditto. |
| Irrigation Branch Notification No. 434-R.I., dated 4th May 1907. | V | Grass lands | 0 4 0 | 0 2 0 | Ditto. |
| | | NOTE.—The rates for grass lands to be assessed at the discretion of the Deputy Commissioner. | | | |
| | | GHAGAR INUNDATION CANALS (BRITISH). | | | |
| | | OCCUPIER'S RATE. | | | |
| Irrigation Branch Notification No. 348-R.I., dated 27th November 1903. | I | Sugarcane | 8 8 0 | 4 4 0 | Acres matured per crop. |
| | II | Rice and water-nuts | 6 0 0 | 3 0 0 | Ditto. |
| | III | All other crops | 2 8 0 | 1 4 0 | Ditto. |
| | | PROVIDED.—Provided that no occupier's rates shall be levied in respect of any land for the time being assessed to fluctuating land revenue. | | | |
| | | DELHI AND GURGAON WORKS. | Rate per acre. | | |
| | | OCCUPIER'S RATE. | R. A. P. | | |
| Irrigation Branch Notification No. 653-I., dated 6th April 1899. | ... | All crops | 0 6 4½ | | Acres. |
| | | Grass | 0 3 8½ | | Do. |
| | | NOTE.—This schedule is the same as that published in Notification No. 5253-I., dated 8th December 1878, which is hereby superseded. | | | |

**STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1921-22—CONCLUDED.**

| Authority. | Class. | Nature of crops. | RATE PER ACRE. | | Per. | |
|--|--------|--|----------------|-------|------|--|
| | | | Flow. | Lift. | | |
| | | DELHI AND GURGAON WORKS—
CONCLUDED. | | | | |
| | | OCCUPIER'S RATE—concluded. | | | | |
| | | SCHEDULE OF RATES FOR SUPPLY OF
WATER FOR PURPOSES OTHER
THAN IRRIGATION. | | | | |
| | | WESTERN JUMNA CANAL, UPPER BARI DOAB
CANAL, SIRHIND CANAL, LOWER CHENAB
CANAL, UPPER JHELUM CANAL, LOWER JHE-
LUM CANAL, UPPER CHENAB CANAL, LOWER
BARI DOAB CANAL, UPPER SUTLEJ CANALS,
LOWER SOHAG AND PARA CANALS, SIDHNAI
AND SUBSIDIARY CANALS, LOWER SUTLEJ AND
CHENAB CANALS, INDUS CANALS, MUZZAFAR-
GARH CANALS, SHAHPUR CANAL. | | | | |
| | | | Rs. | A. | P. | |
| Irrigation Branch Notifi-
cations Nos 651-I.,
dated 6th April 1903,
27-R. I., dated 16th
December 1902, 540-R
I., dated 22nd April
1913, 0105-R. I., dated
25th June 1918, and
0248-R. I., dated 14th
September 1916. | ... | Brick-making and pier wall building ... | 0 | 3 | 0 | 100 cubic feet. |
| | | Laying concrete and brick or stone masonry ... | 0 | 2 | 0 | Ditto. |
| | | Metalling roads ... | 10 | 0 | 0 | Mile. |
| | | Water supplied in bulk... | 1 | 0 | 0 | 2,500 cubic feet. |
| Irrigation Branch Notifi-
cation No. 325-R. I.,
dated 29th October
1905. | ... | Watering roadside or avenue trees ... | 3 | 8 | 0 | Canal mile of 5,000 feet
for kharif crop. |
| | | | 5 | 0 | 0 | Canal mile of 5,000 feet
for rabi crop. |
| Irrigation Branch Notifi-
cation No. 0273-R. I.,
dated 28th September
1911. | ... | PROVISO.—Except within the limits of Civil
Stations, Cantonments and Municipalities no
charge shall be made for water used for the
manufacture of bricks not subsequently burnt
in a kiln or for pier wall building, if taken
from a water-course or tank lawfully supplied
from a canal. | | | | |
| Irrigation Branch Notifi-
cation No. 0272-R. I.,
dated 24th September
1918. | | | | | | |

PUNJAB PROVINCE

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS

FOR THE YEAR

1921-1922.

No. Irr. 154—

dated _____ 1921

Copy forwarded to

D. DEWAR,
Accountant-General, Punjab.

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IRRIGATION BRANCH.

OFFICE OF
ADMINISTRATIVE ACCOUNTS

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| Name of Project. | ESTIMATED COST OF CONSTRUCTION. | | | CAPITAL OUTLAY INCLUSIVE OF INDIRECT | | | |
|---|-------------------------------------|-------------------|---------------------|--------------------------------------|-------------------|------------------|---------------------|
| | Direct charges. | Indirect charges. | Total. | During 1921-22. | | | To end of |
| | | | | Direct charges. | Indirect charges. | Total. | Direct charges. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| PRODUCTIVE WORKS | | | | | | | |
| <i>Canals in Operation.</i> | | | | | | | |
| Western Jumna Canal | 1,74,53,570 | 8,32,333 | 1,82,91,212 | 4,35,238 | 17,564 | 4,72,802 | 1,75,41,902 |
| Upper Bari Doab Canal | 2,03,12,644 | 7,30,630 | 2,10,43,280 | —14,710 | 10 | —14,700 | 2,03,06,533 |
| Central Workshop | 5,90,537 | 12,034 | 6,08,671 | 1,21,450 | 2,986 | 1,24,436 | 14,53,827 |
| Sirhind Canal | 2,47,20,630 | 12,22,659 | 2,59,43,430 | 1,09,302 | 5,696 | 1,14,998 | 2,47,22,000 |
| Lower Chenab Canal | 3,25,60,692 | 8,03,751 | 3,33,66,140 | 1,57,591 | 3,332 | 1,60,923 | 3,24,19,953 |
| Upper Sutlej Inundation Canal (including Lower Sohag and Para.) | 17,01,154 | 1,01,254 | 18,02,708 | —1,424 | .. | —1,424 | 17,28,523 |
| Sidhnai Canal | 12,55,220 | 10,312 | 12,65,532 | —2,752 | 67 | —2,715 | 12,90,201 |
| Lower Jhelum Canal | 1,83,54,926 | 4,78,703 | 1,87,93,639 | 3,85,742 | 22,494 | 6,08,236 | 1,74,80,000 |
| Indus Inundation Canal | 26,44,021 | 80,381 | 26,24,105 | —1,656 | .. | —1,656 | 26,93,103 |
| Upper Chenab Canal | 3,44,20,368 | 9,08,323 | 3,51,27,721 | 2,17,925 | 118 | 2,48,043 | 3,46,23,908 |
| Lower Bari Doab Canal | 2,20,61,368 | 4,81,166 | 2,25,42,534 | 53,270 | 3,566 | 56,836 | 2,21,03,272 |
| Upper Jhelum Canal | 4,27,93,100 | 9,15,705 | 4,37,08,805 | 53,511 | 739 | 54,250 | 4,36,46,212 |
| Sutlej Valley Project | 14,20,37,007 | .. | 14,20,37,007 | 1,71,126 | 6,238 | 1,77,364 | 1,51,126 |
| TOTAL CANALS IN OPERATION—PRODUCTIVE | 36,11,06,376 | 66,79,243 | 36,77,85,619 | 10,34,613 | 62,810 | 10,97,423 | 22,03,41,258 |
| <i>Contribution.</i> | | | | | | | |
| Sutlej Valley Project | Included in the figure shown above. | | | 2,35,224 | .. | 2,35,224 | 2,35,224 |
| Western Jumna Canal | 11,93,972 | .. | 11,93,972 | 28,778 | .. | 28,778 | 11,93,972 |
| Sirhind Canal | 1,43,46,812 | .. | 1,43,46,812 | 15,367 | .. | 15,367 | 1,43,46,812 |
| TOTAL CANALS IN OPERATION, CONTRIBUTION | 1,55,40,784 | .. | 1,55,40,784 | 2,79,369 | .. | 2,79,369 | 1,57,51,069 |

LAHORE :

The

1922.

ACCOUNTANT-GENERAL.

FOR THE YEAR 1921-22

enses

of Productive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Ex-
of those works for and to end of 1921-1922.

| CHARGES, Nos. 2 & 5. | | GROSS RECEIPTS DURING THE YEAR. | | | WORKING EXPENSES AND MAIN-
TENANCE DURING 1921-22 INCLUSIVE OF
INDIRECT CHARGES Nos. 3 AND 5. | | | NET RESULT
DIFFERENCE
AND Rate per
cent. | |
|----------------------|-----------------|---------------------------------|--|-------------|---|-------------------|-------------|---|-----------------------------|
| 1921-22. | | Total. | | | | | | | |
| Indirect
charges. | Total. | Direct Receipts | Portion of land
R. revenue due
to works. | Total. | Dir. et charges. | Indirect charges. | Total. | Excess revenue (sur-
plus). | Of excess ex-
penditure. |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 8,32,333 | 1,53,77,235 (a) | 29,03,467 | 2,17,008 | 31,11,465 | 10,82,203 | 1,33,060 | 18,15,322 | 12,00,143 | |
| 7,30,076 | 2,10,97,463 (a) | 43,02,816 | 9,01,964 | 52,04,810 | 17,78,781 | 1,30,970 | 19,09,760 | 32,95,050 | |
| 12,024 | 14,65,861 (a) | 1,52,935 | .. | 1,52,935 | 65,661 | 12,200 | 77,821 | 75,974 | |
| 12,22,607 | 2,79,41,633 (a) | 52,79,830 | 1,26,077 | 54,05,906 | 14,17,700 | 1,34,889 | 15,52,679 | 38,53,287 | |
| 8,05,754 | 3,32,25,707 | 91,22,291 | 78,14,370 | 1,69,36,651 | 27,03,476 | 2,35,291 | 29,35,757 | 1,30,40,894 | |
| 1,01,254 | 18,23,777 (a) | 5,41,131 | 2,37,160 | 7,78,591 | 6,43,721 | 47,031 | 6,91,352 | 87,230 | |
| 40,342 | 13,30,543 (a) | 1,49,232 | 1,21,921 | 2,70,023 | 1,91,053 | 12,633 | 2,03,730 | 66,287 | |
| 4,53,703 | 1,70,33,712 | 23,83,101 | 15,91,726 | 41,79,827 | 13,04,766 | 1,16,833 | 14,85,599 | 29,94,228 | |
| 83,384 | 23,73,787 (a) | 3,12,238 | 3,10,790 | 6,23,093 | 7,33,104 | 48,760 | 7,82,173 | .. | |
| 9,93,323 | 3,53,22,211 (d) | 37,59,050 | 39,89,854 | 69,45,910 | 18,42,604 | 1,28,208 | 19,70,812 | 49,75,098 | |
| 1,81,169 | 2,23,71,138 (b) | 23,02,352 | 23,32,403 | 43,94,850 | 18,59,105 | 1,44,195 | 20,03,390 | 23,94,463 | |
| 9,15,705 | 4,43,01,917 (d) | 15,21,071 | 6,40,834 | 21,62,805 | 10,20,474 | 1,16,335 | 17,36,809 | 4,25,936 | |
| 6,238 | 1,77,364 | | | | | | | | |
| 66,83,481 | 22,72,19,733 | 3,25,81,790 | 1,78,91,002 | 5,04,72,891 | 1,59,61,188 | 12,61,122 | 1,72,22,310 | 3,34,03,756 | |
| | | | | | | | | 3,32,56 | |
| | 2,35,221 | (b) | | (b) | | | | | |
| | 11,03,072 | 303 | | 303 | 1,23,230 | | 1,23,230 | | |
| | | (b) | | (b) | | | | | |
| | 1,43,59,713 | 1,35,405 | | 1,35,405 | 4,55,251 | | 4,55,251 | | |
| | 1,57,70,900 | 1,35,798 | | 1,35,798 | 5,78,481 | | 5,78,481 | | |

(a) The excess over estimate is due to the debit of Suspense Balance against the Project Estimates.

(b) Excludes recoveries made by Native States and credited in their books.

(c) Excludes share of Accounts Establishment for 1912-13 to 1917-18.

(d) Sanction to the Completion Report is awaited.

(e) These figures include interest on half the Capital outlay during 1921-22.

IRRIGATION BRANCH.

OFFICE OF
ADMINISTRATIVE ACCOUNTS*No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction and the Interest on the Debt incurred in respect*

| Name of Project. | ESTIMATED COST OF CONSTRUCTION. | | | CAPITAL OUTLAY INCLUSIVE OF INDIRECT | | | |
|--|-------------------------------------|-------------------|---------------------|--------------------------------------|-------------------|------------------|---------------------|
| | Direct charges. | Indirect charges. | Total. | During 1921-22. | | | To end of |
| | | | | Direct charges. | Indirect charges. | Total. | Direct charges. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| PRODUCTIVE WORKS. | | | | | | | |
| <i>Canals in Operation.</i> | | | | | | | |
| Western Jumna Canal | 1,74,53,370 | 8,32,333 | 1,82,91,212 | 4,55,238 | 17,504 | 4,72,802 | 1,75,41,902 |
| Upper Bari Doab Canal | 2,03,12,644 | 7,30,636 | 2,10,43,280 | —14,710 | 10 | —14,700 | 2,03,60,833 |
| Central Workshop | 5,96,837 | 12,031 | 6,08,871 | 1,21,480 | 2,086 | 1,24,476 | 14,53,827 |
| Sirhind Canal | 2,47,50,830 | 12,22,609 | 2,59,73,439 | 1,09,302 | 5,606 | 1,14,908 | 2,47,52,000 |
| Lower Chenab Canal | 3,23,60,692 | 8,05,751 | 3,33,66,440 | 1,57,591 | 3,332 | 1,60,923 | 3,24,19,553 |
| Upper Sutlej Inundation Canals (including Lower Sohag and Para.) | 17,01,154 | 1,01,254 | 18,02,708 | —1,424 | .. | —1,424 | 17,23,523 |
| Siddul Canal | 12,55,220 | 10,342 | 12,65,562 | —2,782 | 67 | —2,715 | 12,90,201 |
| Lower Jhelum Canal | 1,83,54,926 | 4,78,703 | 1,87,03,639 | 3,85,742 | 22,494 | 6,08,236 | 1,74,80,069 |
| Indus Inundation Canals | 28,41,021 | 80,384 | 29,24,405 | —1,636 | .. | —1,636 | 28,93,403 |
| Upper Chenab Canal | 3,44,20,398 | 9,98,333 | 3,54,27,721 | 2,47,925 | 118 | 2,48,043 | 3,46,23,408 |
| Lower Bari Doab Canal | 2,20,61,368 | 4,81,166 | 2,25,42,534 | 53,270 | 3,566 | 56,836 | 2,21,93,272 |
| Upper Jhelum Canal | 4,27,93,100 | 9,15,705 | 4,37,08,805 | 53,511 | 730 | 54,250 | 4,36,40,212 |
| Sutlej Valley Project | 14,20,37,007 | .. | 14,20,37,007 | 1,71,120 | 6,238 | 1,77,364 | 1,71,120 |
| TOTAL CANALS IN OPERATION—PRODUCTIVE: | 36,11,06,376 | 66,70,243 | 36,77,85,610 | 10,34,613 | 62,810 | 10,97,423 | 22,05,74,258 |
| <i>Contribution.</i> | | | | | | | |
| Sutlej Valley Project | Included in the figure shown above. | .. | .. | 2,35,224 | .. | 2,35,224 | 2,35,224 |
| Western Jumna Canal | 11,93,972 | .. | 11,93,972 | 28,778 | .. | 28,778 | 11,93,972 |
| Sirhind Canal | 1,43,46,812 | .. | 1,43,46,812 | 15,367 | .. | 15,367 | 1,43,46,812 |
| TOTAL CANALS IN OPERATION, CONTRIBUTION: | 1,55,40,784 | .. | 1,55,40,784 | 2,70,369 | .. | 2,70,369 | 1,57,70,969 |

LAHORE :

The

1922. }

ACCOUNTANT-GENERAL.

7

PUNJAB PROVINCE.

FOR THE YEAR 1921-22.

Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the working expenses Revenue and Working Expenses for and to end of 1921-22.

| GROSS RECEIPTS DURING THE YEAR 1921-22. | | | WORKING EXPENSES AND MAINTENANCE DURING 1919-20 INCLUSIVE OF INDIRECT CHARGES NOS. 3 AND 5. | | | NET RESULTS EXCLUDING INTEREST, DIFFERENCE BETWEEN REVENUE AND WORKING EXPENSES. | | | | Simple interest during 1920-21. | NET RESULTS INCLUDING INTEREST. | | | |
|---|--------------------|-----------|---|-------------------|-----------|--|-------------------------------|--------------------|------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------|------------------------|
| Total. | | | Direct charges. | Indirect charges. | Total. | Excess revenue (surplus). | Excess expenditure (deficit). | Rate per cent. | | | Excess revenue (surplus). | Excess expenditure (deficit). | Rate per cent. | |
| Direct Receipts. | Indirect Receipts. | Total. | | | | | | Of excess revenue. | Of excess expenditure. | | | | Of excess revenue. | Of excess expenditure. |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | | Rs. | Rs. | Rs. | | |
| 47,797 | 14,025 | 61,822 | 83,765 | 0,768 | 60,523 | | 28,701 | .. | 12.76 | | | | | |
| 7,807 | .. | 7,807 | 20,920 | 1,943 | 28,863 | .. | 21,056 | .. | 5.43 | | | | | |
| 55,604 | 14,025 | 69,629 | 1,10,675 | 8,711 | 1,10,386 | .. | 49,757 | .. | 7.12 | | | | | |
| | | | | | | | | | | | | | | |
| .. | .. | .. | 7,331 | .. | 7,331 | .. | 7,331 | .. | 2.48 | | | | | |
| | | | | | | | | | | | | | | |
| 1,98,653 | 2,59,370 | 4,58,023 | 3,80,217 | 23,124 | 4,03,341 | 54,682 | | | | | | | | |
| 90,431 | 1,42,994 | 2,33,425 | 1,57,635 | 9,492 | 1,67,127 | 60,298 | | | | | | | | |
| 2,43,020 | 3,70,838 | 6,14,767 | 3,97,743 | 24,050 | 4,21,793 | 1,92,674 | | | | | | | | |
| 29,118 | 8,136 | 37,254 | 62,270 | 5,032 | 67,311 | .. | 30,057 | | | | | | | |
| | | | | | | | | | | | | | | |
| 5,62,131 | 7,81,338 | 13,43,469 | 9,97,874 | 61,698 | 10,59,572 | 3,13,954 | 30,057 | | | | | | | |

D. DEWAR,
Accountant-General, Punjab.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

No. 2.—CAPITAL ACCOUNTS FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | | | | | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1896). | Expenditure against closed Estimates. |
|---------------------------------|-----------------|----------|-----------|---------------|----------|----------|-----------|----------|-----------|--|---------------------------------------|
| | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1.—WORKS. | | | | | | | | | | | |
| 1.—HEAD WORKS. | | | | | | | | | | | |
| B.—Land .. | 4,673 | | 4,673 | | | | 4,673 | | 4,673 | | |
| C.—Works .. | 4,12,410 | 1,94,680 | 6,14,420 | 5,328 | 16,054 | 22,282 | 4,24,768 | 2,11,934 | 6,36,702 | | |
| K.—Buildings .. | 51,511 | 7,107 | 58,708 | 2,775 | 626 | 3,401 | 54,286 | 7,823 | 62,100 | | |
| O.—Miscellaneous .. | 13,539 | | 13,539 | | | | 13,539 | | 13,539 | | |
| P.—Maintenance .. | 24,839 | | 24,839 | | | | 24,839 | | 24,839 | | |
| Total .. | 5,14,002 | 2,02,177 | 7,16,170 | 8,103 | 17,580 | 25,683 | 5,22,105 | 2,19,757 | 7,41,862 | | |
| 2. MAIN CANAL & BRANCHES | | | | | | | | | | | |
| A.—Preliminary Expense | 49,904 | | 49,904 | 4,580 | | 4,580 | 54,484 | | 54,484 | | |
| B.—Land .. | 2,59,985 | 2,671 | 2,56,556 | 22,270 | 224 | 22,494 | 2,76,244 | 2,705 | 2,79,039 | | |
| D.—Regulators .. | 2,44,056 | | 2,44,056 | 25,671 | | 25,671 | 2,69,727 | | 2,69,727 | | |
| E.—Falls and Weirs .. | 3,61,408 | | 3,61,408 | 12,008 | | 12,008 | 4,03,506 | | 4,03,506 | | |
| F.—River & Hill Four of Works. | 2,749 | | 2,749 | 1,051 | | 1,051 | 3,800 | | 3,800 | | |
| F. (1).—Other Drainage Works .. | 2,24,617 | | 2,24,617 | 11,137 | | 11,137 | 2,64,754 | | 2,64,754 | | |
| G.—Bridges .. | 8,25,808 | | 8,25,808 | 51,270 | | 51,270 | 8,77,078 | | 8,77,078 | | |
| H.—Escapes .. | 3,40,443 | | 3,40,443 | 43,419 | | 43,419 | 3,83,862 | | 3,83,862 | | |
| I.—Navigation Works .. | 13,87,996 | | 13,87,996 | 20,861 | | 20,861 | 14,17,660 | | 14,17,660 | | |
| J.—Mills .. | 55,115 | | 55,115 | 3,835 | | 3,835 | 58,950 | | 58,950 | | |
| K.—Buildings .. | 7,08,033 | 41,787 | 8,09,820 | 15,872 | 747 | 16,619 | 8,13,905 | 42,534 | 8,56,439 | | |
| L.—Earthworks .. | 19,01,367 | | 19,01,367 | 1,06,664 | | 1,06,664 | 20,08,031 | | 20,08,031 | | |
| M.—Plantations .. | 19,032 | | 19,032 | 4,650 | | 4,650 | 23,682 | | 23,682 | | |
| O.—Miscellaneous .. | 74,289 | | 74,289 | 3,708 | | 3,708 | 58,057 | | 58,057 | | |
| P.—Maintenance .. | 1,58,861 | | 1,58,861 | 18,444 | | 18,444 | 1,77,305 | | 1,77,305 | | |
| TOTAL .. | 66,46,753 | 44,358 | 66,91,111 | 1,34,492 | 971 | 1,35,463 | 71,81,245 | 45,329 | 72,26,574 | | |
| 3.—DISTRIBUTABLES— | | | | | | | | | | | |
| A.—Preliminary Expenses | 65,053 | | 65,053 | 12,973 | | 12,973 | 78,026 | | 78,026 | | |
| B.—Land .. | 3,10,862 | | 3,10,862 | 6,055 | | 6,055 | 3,17,817 | | 3,17,817 | | |
| C.—Works .. | 11,57,719 | | 11,57,719 | 30,928 | | 30,928 | 13,18,647 | | 13,18,647 | | |
| L.—Earthwork .. | 14,05,257 | | 14,05,257 | 1,05,612 | | 1,05,612 | 15,70,869 | | 15,70,869 | | |
| O.—Miscellaneous .. | 3,88,880 | | 3,88,880 | 29,350 | | 29,350 | 4,18,230 | | 4,18,230 | | |
| P.—Maintenance .. | 51,921 | | 51,921 | 12,585 | | 12,585 | 67,503 | | 67,503 | | |
| TOTAL .. | 34,12,673 | .. | 34,12,673 | 3,58,403 | .. | 3,58,403 | 37,71,078 | .. | 37,71,078 | | |

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEAD OF ACCOUNT. | DIRECT CHARGES. | | | | | | | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1903.) | Expenditure against closed estimate. |
|---|-----------------|----------|-------------|---------------|----------|-----------|-------------|----------|-------------|--|--------------------------------------|
| | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | |
| 4.—DRAINAGE AND PROTECTIVE WORKS. | | | | | | | | | | | |
| A.—Preliminary Expenses. | 20,301 | .. | 20,301 | 1 | .. | 1 | 20,302 | .. | 20,302 | | |
| B.—Land .. | 59,225 | .. | 59,225 | .. | .. | .. | 59,225 | .. | 59,225 | | |
| C.—Works .. | 2,08,420 | .. | 2,08,420 | .. | .. | .. | 2,08,420 | .. | 2,08,420 | | |
| L.—Earthwork .. | 4,27,404 | .. | 4,27,404 | 3,113 | .. | 3,113 | 4,30,517 | .. | 4,30,517 | | |
| O.—Miscellaneous .. | 22,047 | .. | 22,047 | .. | .. | .. | 22,047 | .. | 22,047 | | |
| TOTAL .. | 7,38,093 | | 7,38,093 | 3,114 | | 3,114 | 7,41,177 | | 7,41,177 | | |
| TOTAL I.—WORKS .. | 1,13,11,513 | 535 | 1,15,58 018 | 9,01,112 | 18,551 | 9,22,663 | 1,22,16,826 | 2,65,056 | 1,24,81,711 | | |
| Add expenditure on general works at end of 1891-95. | 10,21,123 | .. | 10,21,123 | .. | .. | .. | 10,21,123 | .. | 10,21,123 | | |
| TOTAL .. | 1,32,35,030 | 2,40,535 | 1,34,81,171 | 9,01,112 | 18,551 | 9,22,663 | 1,41,59,718 | 2,65,056 | 1,44,24,834 | 1,15,20,587 | 11 91,196 |
| II.—ESTABLISHMENT | | | | | | | | | | | |
| 5. DIRECTION (a) .. | | | | | | | | | | | |
| 6. EXECUTIVE .. | | | | | | | | | | | |
| 8. SPECIAL SURVEY .. | 31,74,142 | 1,04,021 | 32,78,163 | 2,08,518 | 7,693 | 2,16,231 | 33,92,650 | 1,11,717 | 34,94,367 | | |
| 9. SPECIAL FIELD SURVEY .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| LEAVE AND PENSION ALLOWANCES. | .. | .. | .. | 59,100 | 1,077 | 30,273 | 29,106 | 1,077 | 30,273 | | |
| TOTAL .. | 31,74,142 | 1,04,021 | 32,78,163 | 2,37,734 | 8,773 | 2,46,507 | 34,11,876 | 1,12,794 | 35,24,670 | | |
| Add expenditure on general works at end of 1891-95. | 1,85,590 | .. | 1,85,590 | .. | .. | .. | 1,85,590 | .. | 1,85,590 | | |
| TOTAL .. | 33,59,732 | 1,04,021 | 34,63,753 | 2,37,734 | 8,773 | 2,46,507 | 35 97,466 | 1,12,794 | 37,10,260 | 37,58,435 | 35,98,580 |
| III.—TOOLS AND PLANT. | | | | | | | | | | | |
| 1. Scientific Instrument | | | | | | | | | | | |
| 2. Plant and Machinery | | | | | | | | | | | |
| 3. Tools .. | 2,21,075 | 10,320 | 2,31,395 | 23,820 | 1,454 | 25,274 | 2,54,833 | 20,771 | 2,80,600 | | |
| 4. Navigation Plant .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 5. Camp Equipage .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 6. Live Stock .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 7. Office Furniture .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 8. Repair and Carriage .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 12. Miscellaneous .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| TOTAL .. | 2,23,075 | 10,320 | 2,33,395 | 23,820 | 1,454 | 25,274 | 2,56,806 | 21,771 | 2,78,577 | 2,74,033 | 2,47,070 |
| IV.—SUSPENSE ACCOUNT. | | | | | | | | | | | |
| 14. STOCK .. | 2,81,150 | 94,724 | 3,75,874 | .. | .. | .. | 2,81,150 | 97,424 | 3,78,574 | | |
| 15. STOCK PURCHASES .. | —3,721 | —12,743 | —16,464 | .. | .. | .. | —3,721 | —12,743 | —16,464 | | |
| 15a. STOCK SALES .. | 500 | .. | 500 | .. | .. | .. | 500 | .. | 500 | | |
| 16. MISCELLANEOUS ADVANCE .. | 1,972 | 3,381 | 5,353 | .. | .. | .. | 1,972 | 3,381 | 5,353 | | |
| TOTAL .. | 2,82,701 | 85,362 | 3,68,063 | .. | .. | .. | 2,82 701 | 85,362 | 3,68,063 | | |
| GRAND TOTAL .. | 1,71,91,146 | 1,55,438 | 1,75,34,783 | 11,05,005 | 28 773 | 11,33,778 | 1,82,81,811 | 1,81,010 | 1,87,60,927 | 1,86,53,123 | 1,81,61,416 |
| V.—LESS RECEIPTS ON CAPITAL ACCOUNT. | 11,191 | .. | 11,191 | 472 | .. | 472 | 11,053 | .. | 11,053 | 11,053 | 11,053 |
| NET TOTAL .. | 1,70,80,000 | 1,55,238 | 1,75,41,900 | 11,04,533 | 28,773 | 11,33,306 | 1,81,76,758 | 1,81,010 | 1,87,49,874 | 1,80,41,171 | |
| APPORTIONMENT | | | | | | | | | | | |
| 49. Irrigation Works .. | 1,70,92,631 | 1,55,233 | 1,76,47,902 | 11,05,194 | 28,773 | 11,33,972 | 1,82 54,853 | 1,81,010 | 1,87,35,874 | 1,86,41,171 | 1,81,48,193 |

(a) Share of accounts excluded under Imperial from 1912-13 to 1917-18.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Janna Canal Project.

No. 3.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22

| RECEIPTS. | IMPERIAL | | | CONTRIBUTIONS | | | TOTAL | | |
|--|--------------|-----------|--------------|---------------|----------|--------|--------------|-----------|---------------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Occupiers' rates .. | .. | 26,71,461 | .. | .. | .. | .. | .. | 26,71,461 | .. |
| Rs. for water .. | .. | 14,679 | .. | .. | .. | .. | .. | 14,679 | .. |
| Receipts from Plantations .. | .. | 18,310 | .. | .. | 222 | .. | .. | 18,562 | .. |
| Receipts from other Canal Produce. | .. | 993 | .. | .. | 7 | .. | .. | 1,000 | .. |
| Water power .. | .. | 1,159 | .. | .. | .. | .. | .. | 4,159 | .. |
| Navigation receipts .. | .. | 1,56,320 | .. | .. | .. | .. | .. | 1,56,320 | .. |
| Rent of buildings .. | .. | 9,629 | .. | .. | 33 | .. | .. | 9,622 | .. |
| Fine .. | .. | 2,671 | .. | .. | 52 | .. | .. | 2,123 | .. |
| Miscellaneous and other Receipts. | .. | 19,791 | .. | .. | 35 | .. | .. | 19,796 | .. |
| Deduct Refund of Revenue .. | .. | 3,904 | .. | .. | 46 | .. | .. | 3,250 | .. |
| Total .. | 11,26,24,217 | 28,93,467 | 11,55,17,684 | 40,177 | 303 | 40,480 | 11,26,64,391 | 28,93,770 | 11,55,58,164 |
| Share of Land Revenue collected in the Civil Department. | 1,98,90,470 | 2,17,703 | 2,01,08,173 | .. | .. | .. | 1,98,90,470 | 2,17,703 | 2,01,08,173 |
| Interest on sale-proceeds of waste lands benefited | 2,670 | 295 | 3,165 | .. | .. | .. | 2,670 | 295 | 3,165 |
| Total .. | 1,08,93,340 | 2,17,998 | 2,01,11,338 | .. | .. | .. | 1,98,93,340 | 2,17,998 | 2,01,11,338 |
| TOTAL RECEIPTS .. | 13,25,17,557 | 31,11,465 | 13,56,29,022 | 40,177 | 303 | 40,480 | 12,25,67,731 | 31,11,768 | (a)
13,56,69,502 |

a) Rs. 6,19,270 more would have earned had not owners' rates on certain lands irrigated remitted in favour of Revenue a-1921-22.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

No. 3.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22.

| CHARGES. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|----------------------------------|-------------|----------|-------------|---------------|-----------------------|---------------------|-------------|-------------------------|------------------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| (1)—EXTENSIONS AND IMPROVEMENTS. | | | | | | | | | |
| 1—Head Works | 2,78,348 | 6,036 | 2,84,384 | 17,723 | | 17,723 | 2,06,071 | 6,036 | 3,02,107 |
| 2—Main Canal and Branches. | 15,07,258 | 29,947 | 15,37,205 | 2,09,602 | { 4,024
14,310 } | 14,310
3,04,586 | 18,06,020 | { 34,871
14,319 } | 18,41,701
14,319 |
| 3—Distributaries | 9,44,847 | 49,136 | 9,93,983 | 56,513 | | 56,513 | 10,01,980 | 49,136 | 10,50,406 |
| 4—Drainage and Protective Works. | 83,033 | 3,986 | 87,019 | 2,747 | | 2,747 | 85,780 | 3,986 | 89,766 |
| 7—Loss on Stock | | 108 | 108 | | | | | 108 | 108 |
| Total I. A. | 28,13,486 | 80,213 | 28,93,699 | 3,78,045 | { 4,024
14,319 } | 3,81,569
14,310 | 31,90,131 | { 94,137
14,319 } | 32,84,208
—14,319 |
| 2—MAINTENANCE AND REPAIRS. | | | | | | | | | |
| 1—Head Works | 20,84,009 | 69,334 | 21,53,343 | 96,032 | | 96,032 | 21,80,041 | 69,334 | 22,50,275 |
| 2—Main Canal and Branches. | 90,75,423 | 3,33,766 | 94,09,179 | 5,89,462 | { 45,807
—14,319 } | 0,35,260
—14,319 | 96,64,885 | { 3,79,563
—14,319 } | 1,00,44,448
—14,319 |
| 3—Distributaries | 50,88,021 | 2,24,812 | 53,12,833 | 1,71,219 | | 1,71,219 | 52,59,840 | 2,24,812 | 54,84,652 |
| 4—Drainage and Protective Works. | 7,33,068 | 15,741 | 7,48,809 | 23,878 | | 23,878 | 7,57,640 | 15,741 | 7,73,287 |
| 7—Loss on Stock | | 150 | 150 | | | | | 150 | 150 |
| 8—Compensation | | 1,093 | 1,093 | | | | | 1,093 | 1,093 |
| Total I. B. | 1,69,82,621 | 6,44,880 | 1,76,27,507 | 8,80,501 | { 45,807
—14,319 } | 0,26,398
—14,319 | 1,78,03,212 | { 6,90,693
—14,319 } | 1,85,53,905
—14,319 |
| (3)—COMPENSATION. | 1,19,400 | | 1,19,400 | 3,008 | | 3,008 | 1,22,408 | | 1,22,408 |
| (4)—ESTABLISHMENT. | | | | | | | | | |
| 5—Direction and Account. | | | | | | | | | |
| 6—Executive Establishment. | 1,16,86,205 | 5,81,500 | 1,22,67,705 | 5,17,176 | 38,245 | 5,55,420 | 1,24,03,440 | 6,19,841 | 1,30,23,281 |
| 7—Medical Do. | | | | | | | | | |
| 7A—Revenue Co. | 78,40,237 | 3,00,030 | 81,40,267 | 1,38,748 | 21,864 | 1,60,612 | 70,78,985 | 3,00,030 | 83,09,888 |
| 7B—Navigation Establishment. | | | | | | | | | |
| 7C—Plantation Establishment. | | | | | | | | | |
| 7E—Mill and Machinery | | | | | | | | | |
| Leave and Pension Allowances. | | | | 01,800 | 8,415 | 1,00,215 | 01,800 | 8,415 | 1,00,215 |
| Total | 1,97,28,502 | 8,00,635 | 2,05,29,137 | 7,47,723 | 68,524 | 8,16,247 | 2,04,71,225 | 9,59,159 | 2,14,33,384 |

(a) Includes Rs. 14,319 on account of seigniorage during the year. Up to date Rs. 2,33,307.

(b) Share of Accounts Establishment excluded under Imperial from 1911-12 to 1917-18.

(c) Represents extra here on account of doubling up the duty under 4E—Interest for 1918-19 = Rs. 1,06,199, for 1919-20 = Rs. 2,07,903, for 1920-21 = Rs. 7,72,830.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

No 3.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22.

| CHARGES. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|--|--------------|-----------|----------------------------------|---------------|-----------|------------|--------------|-----------|----------------------------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| (5)—TOOLS AND PLANT. | | | | | | | | | |
| 1—SCIENTIFIC INSTRUMENTS AND DRAWING MATERIALS. | | | | | | | | | |
| 2—PLANT AND MACHINERY. | | | | | | | | | |
| 3—TOOLS .. | | | | | | | | | |
| 4—NAVIGATION PLANT. | | | | | | | | | |
| 5—CAMP EQUIPAGE | 6,34,806 | 50,497 | 6,85,303 | | 3,075 | 33,931 | 6,34,806 | 53,472 | 6,88,278 |
| 6—LIVE STOCK .. | | | | | | | | | |
| 7—OFFICE FURNITURE. | | | | | | | | | |
| 12—MISCELLANEOUS. | | | | | | | | | |
| 8—REPAIRS AND CARRIAGE. | | | | 29,956 | | | 29,956 | | 29,956 |
| TOTAL .. | 6,34,806 | 50,497 | 6,85,303 | 29,956 | 3,075 | 33,931 | 6,64,762 | 53,472 | 7,18,234 |
| (6)—REFUNDS OF REVENUE. | 3,74,253 | | 3,74,253 | | | | 3,74,253 | | 3,74,253 |
| (7)—PROFIT AND LOSS. | 1,205 | | 1,205 | | | | 1,205 | | 1,205 |
| General work to end of 1864-65. | 48,92,523 | | 48,92,523 | | | | 48,92,523 | | 48,92,523 |
| Deduct recoveries of Revenue Accounts. | 52,68,071 | 1,968 | 52,68,071
—1,968
52,66,103 | | | | | 1,968 | 52,68,071
—1,968
52,66,103 |
| TOTAL .. | 4,55,44,886 | 10,81,203 | 4,66,26,089 | 20,37,923 | 1,23,230 | 21,61,153 | 4,76,82,809 | 12,05,493 | 4,88,88,302 |
| Indirect charges debit-able to Revenue Account as per Account No. 5. | 31,05,017 | 1,33,059 | 32,38,076 | | | | | 1,33,059 | 32,38,076 |
| TOTAL CHARGES | 4,87,09,903 | 18,16,322 | 4,95,26,225 | 20,37,923 | 1,23,230 | 21,61,153 | 4,76,82,809 | 12,05,493 | 4,88,88,302 |
| Balance Net Revenue | 8,38,07,654 | 12,06,143 | 8,50,13,797 | 19,07,746 | —1,22,927 | —21,20,673 | 8,18,09,908 | 11,73,210 | 8,29,83,118 |
| GRAND TOTAL .. | 13,25,17,557 | 31,11,465 | 13,56,29,022 | 40,177 | 303 | 40,480 | 13,25,57,731 | 31,11,768 | 13,56,69,502 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|---|-------------|---|-------------|
| | Rs. | | Rs. |
| Interest charges to end of 1920-21 .. | 2,57,81,670 | Net Revenue realized to end of 1920-21 .. | 8,38,07,654 |
| Do. for the year 1921-22 .. | | Do. during 1921-22 .. | 12,96,143 |
| Total outlay to end of 31st March 1917 | | | |
| 68,83,536 at 3.252 % .. | 5,61,411 | | |
| Outlay from 1-4-17—31-3-21 and half of | | | |
| Outlay during 1921-22 .. | 20,475 | | |
| | 5,87,886 | | |
| 4,33,747 at 6.1038% Total .. | 2,03,69,565 | | |
| Balance Revenue after defraying Interest charges .. | 5,87,34,232 | | |
| Total .. | 8,51,03,797 | Total .. | 8,51,03,797 |

No. 5—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| Particulars. | Previous. | 1921-22. | Total. |
|---|-----------|----------|-----------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue .. | 2,16,705 | 191 | 2,16,895 |
| Leave and Pension Allowances { Imperial .. | 5,98,064 | 14,908 | 6,12,972 |
| { Contribution .. | 20,105 | 1,077 | 30,272 |
| Audit and Account Charges .. | .. | 2,465 | 2,465 |
| Total .. | 8,43,064 | 16,611 | 8,62,605 |
| Leave and Pension Allowances debited to Native States treated as Direct Charges and transferred to Account No. 2 of the Canal. | 20,195 | 1,077 | 30,272 |
| Net debit to Imperial .. | 8,14,769 | 17,564 | 8,32,333 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue .. | 17,767 | .. | 17,767 |
| Leave and Pension Allowances { Imperial .. | 31,47,250 | 1,25,718 | 32,72,968 |
| { Contribution .. | 91,800 | 8,415 | 1,00,215 |
| Audit and Account Charges .. | .. | 7,341 | 7,341 |
| Total .. | 32,56,817 | 1,41,474 | 33,58,201 |
| Leave and Pension Allowances debited to Native States treated as Direct charges and transferred to Account No. 3 of this Canal. | 91,800 | 8,415 | 1,00,215 |
| Net debit to Imperial Revenue .. | 31,65,017 | 1,33,079 | 32,38,076 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Western Jumna Canal Project.

6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS | | | Total charges to date against old and current sanctions. | REMARKS. |
|--|--|---|-------------|-------------------|---------------------------------|------------------------------|--|-------------------------|
| | Expenditure against Construction Estimate. | Expenditure against open Canal sanctions. | Total. | Charges to date. | Amount of sanctioned estimates. | Unspent Balance of Estimate. | | |
| IMPERIAL. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| DIRECT CHARGES. | | | | | | | | Scy's. No. Date Amount. |
| Works .. | 1,02,90,277 | 29,81,256 | 1,32,71,533 | 2,10,638 | 4,26,371 | 2,15,733 | 1,34,82,171 | Rs. |
| Establishment .. | 27,27,223 | 7,30,530 | 34,63,753 | .. | 59,909 | 59,909 | 34,63,753 | " 1257 15-9-20 4,250 |
| Tools and Plant .. | 1,77,785 | 64,611 | 2,42,396 | .. | 6,308 | 6,308 | 2,42,396 | " 425 22-1-21 3,098 |
| Suspense Balance .. | .. | .. | .. | 3,68,063 | .. | -3,68,063 | 3,68,063 | " 423 22-1-21 3,843 |
| Total .. | 1,31,05,283 | 37,82,397 | 1,69,77,682 | 5,78,701 | 4,92,678 | -86,023 | 1,75,56,383 | " 883 14-2-21 2,184 |
| Less Receipts on Capital Account. | 11,201 | 280 | 11,481 | .. | .. | .. | 11,461 | " 337 9-2-21 1,124 |
| Net Total .. | 1,31,84,084 | 37,82,117 | 1,69,66,201 | 5,78,701 | 4,92,678 | -86,023 | 1,75,44,602 | " 1687 4-4-21 3,024 |
| INDIRECT CHARGES. | | | | | | | | " 1524 14-9-21 42,785 |
| Capitalized abatement of Land Revenue. | 1,53,167 | 63,720 | 2,16,886 | .. | .. | .. | 2,16,886 | " 952 15-2-22 12,768 |
| Leave and Pension Allowance. | 5,12,094 | 1,00,878 | 6,12,972 | .. | .. | .. | 6,12,972 | " 2349 7-5-21 4,798 |
| A. and A. Charges .. | .. | 2,465 | 2,465 | .. | .. | .. | 2,465 | " 1827 22-3-22 7,161 |
| Total .. | 6,65,261 | 1,07,073 | 8,32,333 | .. | .. | .. | 8,32,333 | " 1777 21-3-22 5,023 |
| GRAND TOTAL | 1,38,49,345 | 39,49,189 | 1,77,98,534 | 5,78,701 | 4,92,678 | -86,023 | 1,83,77,255 | " 1775 21-3-22 7,201 |
| CONTRIBUTION. | | | | | | | | " 1859 23-3-22 7,765 |
| DIRECT CHARGES. | | | | | | | | 4,92,678 |
| Works .. | 8,34,341 | 88,322 | 9,22,663 | .. | .. | .. | 9,22,663 | |
| Establishment .. | 2,17,498 | 20,000 | 2,40,507 | .. | .. | .. | 2,40,507 | |
| Tools and Plant .. | 22,814 | 2,460 | 25,274 | .. | .. | .. | 25,274 | |
| Total .. | 10,74,653 | 1,10,791 | 11,94,444 | .. | .. | .. | 11,94,444 | |
| Less Receipts on Capital Account. | 472 | .. | 472 | .. | .. | .. | 472 | |
| Net Total .. | 10,74,181 | 1,10,791 | 11,93,972 | .. | .. | .. | 11,93,972 | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Bari Doab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT: | DIRECT CHARGE. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1890.) | Expenditure against closed Estimates. |
|---|----------------|----------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous | 1921-22. | Total | | |
| I.—WORKS. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1.—HEAD WORKS— | | | | | |
| B.—Land | —466 | .. | —466 | | |
| C.—Works | 8,23,558 | .. | 8,23,558 | | |
| K.—Buildings | 68,562 | .. | 68,562 | | |
| Total | 8,91,654 | .. | 8,91,654 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 8,186 | .. | 8,186 | | |
| B.—Land | 1,39,706 | .. | 1,39,706 | | |
| D.—Regulator | 3,52,939 | .. | 3,52,939 | | |
| E.—Falls and Weirs | 10,49,484 | .. | 10,49,484 | | |
| F.—River and Hill Torrent Works | 5,39,998 | .. | 5,39,998 | | |
| F.—(1)—Other Cross Drainage Works | 1,18,245 | .. | 1,18,245 | | |
| G.—Bridges | 8,52,439 | .. | 8,52,439 | | |
| H.—Escapes | 6,38,733 | .. | 6,38,733 | | |
| I.—Navigation Works | 4,78,588 | .. | 4,78,588 | | |
| J.—Mills | 1,62,327 | .. | 1,62,327 | | |
| K.—Buildings | 10,99,867 | 195 | 11,00,062 | | |
| L.—Earthwork | 39,00,740 | .. | 39,00,740 | | |
| M.—Plantations | 95,475 | .. | 95,475 | | |
| O.—Miscellaneous | 7,24,532 | .. | 7,24,532 | | |
| P.—Maintenance | 75,872 | .. | 75,872 | | |
| Total | 1,11,36,240 | 195 | 1,11,36,435 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 24,333 | .. | 24,333 | | |
| B.—Land | 3,06,714 | .. | 3,06,714 | | |
| C.—Works | 16,29,805 | .. | 16,29,805 | | |
| L.—Earthwork | 16,98,384 | .. | 16,98,384 | | |
| O.—Miscellaneous | 3,15,897 | .. | 3,15,897 | | |
| P.—Maintenance | 8,354 | .. | 8,354 | | |
| Add—Dinanagar Navigation Channel | 35,776 | .. | 35,776 | | |
| Shahpur watercourses | 63,427 | .. | 63,427 | | |
| Lahore City Rajbaha | 12,724 | .. | 12,724 | | |
| TOTAL | 41,55,324 | .. | 41,55,324 | | |
| Total carried over | 1,61,83,218 | 195 | 1,61,83,413 | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Bari Doab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1890). | Expenditure against closed Estimates. |
|---|-----------------|----------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS—CONCLUDED. | | | | | |
| Brought over .. | 1,61,83,218 | 195 | 1,61,83,413 | | |
| 4.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | 530 | | 530 | | |
| B.—Land | 6,510 | | 6,510 | | |
| C.—Works | 28,906 | | 28,906 | | |
| L.—Earthwork | 96,247 | | 96,247 | | |
| O.—Miscellaneous | 1,163 | | 1,163 | | |
| TOTAL .. | 1,33,374 | | 1,33,374 | | |
| TOTAL I.—WORKS .. | 1,60,43,165 | 195 | 1,60,43,360 | 1,61,81,983 | 1,61,66,046 |
| N. B.—Rs. 2,73,427 deducted on account of C. C. W. Project | | | | | |
| II.—ESTABLISHMENT. | | | | | |
| 5. Direction | 34,81,690 | 56 | 34,81,746 | | |
| 6. Executive | | | | | |
| 7. Medical | | | | | |
| TOTAL .. | 34,21,856 | 56 | 34,21,912 | 34,27,489 | 34,21,912 |
| N. B.—Rs. 39,843 deducted on account of C. C. W. Project. | | | | | |
| III.—TOOLS AND PLANT. | | | | | |
| 2. Plant and Machinery | 9,48,410 | 1 | 9,48,411 | | |
| 4. Navigation Plant | | | | | |
| 5. Repairs and Carriage | | | | | |
| 12. Miscellaneous | | | | | |
| TOTAL .. | 7,10,738 | 1 | 7,10,739 | 7,20,127 | 7,10,739 |
| N. B.—Rs. 2,28,672 deducted on account of C. C. W. Project | | | | | |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14. Stock | 9,98,546 | —19,616 | 9,78,930 | | |
| 15. Stock Purchases | —20,745 | 2,839 | —17,906 | | |
| 16a. Stock Sales | 7,231 | 218 | 7,602 | | |
| 16. Miscellaneous Advances | | | | | |
| 18. London Stores | —911 | 1,697 | 686 | | |
| N. B.—Rs. 7,70,405 deducted on account of C. C. W. Project. | | | | | |
| TOTAL .. | 2,13,739 | —14,962 | 1,98,777 | | |
| GRAND TOTAL .. | 2,03,08,498 | —14,710 | 2,03,83,788 | 2,63,29,699 | 2,02,07,697 |
| V. LESS RECEIPTS ON CAPITAL ACCOUNT .. | 13,355 | | 13,355 | 16,955 | 16,955 |
| NET TOTAL .. | 2,03,81,543 | —14,710 | 2,03,66,833 | 2,03,12,644 | 2,02,80,742 |
| APPORTIONMENT. | | | | | |
| 49.—Irrigation Works | 2,03,81,543 | —14,710 | 2,03,66,833 | | |

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Bari Doab Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|--------------|-----------|--------------|---|--------------|-----------|--------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 11,64,25,827 | 40,17,487 | 12,04,43,314 | (1)—EXTENSIONS AND IMPROVEMENTS. | | | |
| Owners' rates on irrigated land. | 8,575 | — | 8,575 | 1.—HEAD WORKS .. | 4,40,995 | 23,857 | 4,70,852 |
| Sales of water .. | 9,22,430 | 39,180 | 9,61,610 | 2.—MAIN CANAL AND BRANCHES | 15,60,134 | 27,275 | 15,87,409 |
| Supply of towns .. | 4,128 | 60 | 4,188 | 3.—DISTRIBUTARIES .. | 13,78,002 | 18,701 | 13,97,393 |
| Receipts from Plantations. | 13,37,743 | 49,323 | 13,86,066 | 4.—DRAINAGE AND PROTECTIVE WORKS. | 2,46,734 | 11,433 | 2,60,167 |
| Receipts from other Canal produce. | 2,69,290 | 2,573 | 2,62,863 | TOTAL .. | 36,34,466 | 81,356 | 37,15,821 |
| Water-power .. | 49,35,020 | 1,67,744 | 51,03,664 | (2)—MAINTENANCE AND REPAIRS. | | | |
| Navigation Receipts .. | 5,477 | 2,004 | 7,481 | 1.—HEAD WORKS .. | 50,74,977 | 83,403 | 51,58,470 |
| Rent of buildings .. | | 13,981 | 13,981 | 2.—MAIN CANAL AND BRANCHES | 1,03,52,346 | 4,85,257 | 1,08,37,603 |
| Fines .. | 25,98,010 | 3,780 | 26,01,790 | 3.—DISTRIBUTARIES .. | 51,70,306 | 2,40,023 | 54,16,329 |
| Miscellaneous and other Receipts. | | 10,383 | 10,383 | 4.—DRAINAGE WORKS .. | 1,50,436 | 8,223 | 1,61,059 |
| Deduct Refunds .. | | 3,080 | 3,080 | TOTAL (2) .. | 2,07,54,085 | 8,22,996 | 2,15,77,001 |
| Total .. | 12,64,97,400 | 43,02,840 | 13,08,00,240 | (3)—COMPENSATION | 49,616 | 574 | 50,190 |
| Share of Land Revenue collected in the Civil Department. | 1,81,39,053 | 8,11,414 | 1,89,51,007 | (4)—ESTABLISHMENT. | | | |
| Interest on sale-proceeds of waste lands benefited. | 11,21,121 | 90,050 | 12,11,071 | 5.—DIRECTION AND ACCOUNT | 1,22,58,650 | 5,24,720 | 1,27,83,370 |
| Total .. | 1,02,60,504 | 9,01,064 | 2,01,62,768 | 6.—EXECUTIVE ESTABLISHMENT | | | |
| TOTAL RECEIPTS .. | 14,57,58,204 | 52,04,810 | 15,09,63,014 | 7.—MEDICAL do. .. | 87,90,878 | 3,57,161 | 91,48,039 |
| | | | | 7A.—REVENUE do. .. | 55,302 | — | 55,302 |
| | | | | 7C.—PLANTATION do. .. | 52 | — | 52 |
| | | | | 7D.—LEAVE AND PENSION ALLOWANCES. | | | |
| | | | | TOTAL (4) — ESTABLISHMENT | 2,11,04,882 | 8,01,881 | 2,19,66,763 |
| | | | | (5)—TOOLS AND PLANT. | | | |
| | | | | 1.—SCIENTIFIC INSTRUMENTS AND DRAWING MATERIALS | | | |
| | | | | 2.—PLANT AND MACHINERY .. | | | |
| | | | | 3.—TOOLS .. | | | |
| | | | | 4.—NAVIGATION PLANT .. | 7,64,878 | 13,108 | 7,76,686 |
| | | | | 5.—CAMP EQUIPMENT .. | | | |
| | | | | 6.—LIVE STOCK .. | | | |
| | | | | 7.—OFFICE FURNITURE .. | | | |
| | | | | 8.—REPAIRS AND CARRIAGE .. | | | |
| | | | | 9.—MISCELLANEOUS .. | | | |
| | | | | TOTAL (5)—TOOLS AND PLANT | 7,64,878 | 13,108 | 7,77,686 |
| | | | | (6)—REFUNDS OF REVENUE | 3,93,253 | — | 3,93,223 |
| | | | | Deduct recovery on Revenue Account. | 1,073 | 1,134 | 1,134 |
| | | | | (7)—INCOME TAX AND LCSS .. | | | |
| | | | | TOTAL .. | 4,06,15,001 | 17,78,181 | 4,83,03,083 |
| | | | | Indirect charges debitable to Revenue Account as per Account No. 5. | 32,04,110 | 1,50,979 | 33,55,089 |
| | | | | TOTAL CHARGES .. | 4,88,76,312 | 10,00,760 | 5,17,86,072 |
| | | | | Balance, Net Revenue .. | 0,58,81,802 | 3,15,050 | 6,91,76,942 |
| | | | | GRAND TOTAL .. | 14,57,58,204 | 52,04,810 | 15,09,63,014 |

(a) Share of Accounts excluded from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Bari Doab Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount | | Amount |
|--|-------------|---|-------------|
| | Rs. | | Rs. |
| Total Interest charges to end of 1920-21 .. | 3,82,24,341 | Net Revenue realized to end of 1920-21 .. | 9,58,31,892 |
| Do. for the year 1920-21 | | Do. during 1921-22 .. | 32,95,039 |
| Total outlay to end of March 1917 | 2,02,66,328 | | |
| Interest on Rs. 2,02,66,328 at 3-3252 | 6,73,896 | | |
| Total outlay during 1917-18, 1918-19, and 1919-20 and 1920-21. | 1,15,215 | | |
| Add } outlay during 1921-22 | -7,355 | | |
| Interest at 0-1038 per cent. on Rs. 1,07,860 .. | 6,584 | | |
| Total .. | 3,89,04,821 | | |
| Balance Revenue after defraying Interest charges .. | 6,02,72,121 | | |
| Total .. | 9,91,76,942 | Total .. | 9,91,76,942 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total |
|--|-----------|----------|-----------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue .. | 20,661 | — | 20,661 |
| Leave and Pension Allowances .. | 7,09,965 | 10 | 7,09,975 |
| Audit and Accounts .. | 2 0 0 | | |
| Leave and Pension .. | 8 0 0 | 10 | 7,30,636 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue .. | 20,499 | — | 20,499 |
| Leave and Pension Allowances .. | 32,43,611 | 1,30,979 | 33,74,590 |
| Audit and Account charges 9049 | | | |
| Leave and Pension Allowances proper 121930 | | | |
| Total .. | 82,61,110 | 1,30,979 | 33,95,039 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. | | |
|--|--|---|-------------|--------------------|--------------------------------|------------------------------|--|-------------------------------|--------------------|---------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of sanctioned Estimate. | Unspent Balance of Estimate. | | Authority. | No. and date. | Amount. |
| DIRECT CHARGES. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | | Rs. |
| Works .. | 1,24,50,791 | 37,05,255 | 1,61,56,046 | 1,12,635 | 25,937 | 1,38,623 | 1,60,43,300 | Secretary, Irrigation Branch. | G. P. W. I. 391 | 2,664 |
| Establishment .. | 27,91,459 | 6,30,462 | 34,21,919 | | 5,577 | 5,577 | 34,21,912 | | 21-1-21 G. I. 450 | 18,308 |
| Tools and Plant .. | 4,93,215 | 2,21,524 | 7,19,739 | | 388 | 368 | 7,19,739 | | 23-1-22 902 | 5,224 |
| Suspense Balance .. | | | | 1,93,777 | | -1,93,777 | 1,93,777 | | 13-2-22 W. I. 1521 | 1,753 |
| Total .. | 1,57,40,458 | 45,57,239 | 2,02,97,697 | 86,031 | 31,902 | -54,189 | 2,03,83,783 | | 19-4-20 W. I. 2745 | 1,892 |
| Less Receipts on Capital Account. | 16,955 | — | 16,955 | — | — | — | 16,955 | | 12-1-21 2743 | 2,054 |
| Total .. | 1,57,23,503 | 45,57,239 | 2,02,80,742 | 86,031 | 31,902 | -54,189 | 2,03,60,333 | | 12-11-20 | — |
| INDIRECT CHARGES. | | | | | | | | | Total | 31,902 |
| Capitalized abatement of Land Revenue. | 8, | 12,280 | 20,661 | | | | 20,661 | | | |
| Leave and Pension Allowances. | 6,22,375 | 87,600 | 7,09,975 | | | | 7,09,975 | | | |
| Total .. | 6,30,750 | 99,880 | 7,30,636 | | | | 7,30,636 | | | |
| GRAND TOTAL .. | 1,63,54,259 | 46,57,119 | 2,10,11,378 | 86,031 | 31,902 | -54,189 | 2,10,97,463 | | | |

IRRIGATION BRANCH.

OFFICE OF ACCOUNTANT-GENERAL.

PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Central Workshop Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEAD OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1892). | Expenditure against closed Estimate. |
|---------------------------------|-----------------|----------|--------|--|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| I.—Works. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1. HEAD WORKS— | | | | | |
| A.—Preliminary Expenses | | | | | |
| B.—Land | | | | | |
| C.—Works | | | | | |
| K.—Buildings | | | | | |
| O.—Miscellaneous | | | | | |
| Total | | | | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | | | | | |
| B.—Land | | | | | |
| D.—Regulators | | | | | |
| G.—Bridges | | | | | |
| K.—Buildings | .. | 71,595 | 71,595 | | |
| L.—Earthwork | | | | | |
| M.—Plantations | | | | | |
| O.—Miscellaneous | | | | | |
| P.—Maintenance | | | | | |
| Total | .. | 71,595 | 71,595 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | | | | | |
| B.—Land | | | | | |
| C.—Works | | | | | |
| L.—Earthwork | | | | | |
| O.—Miscellaneous | | | | | |
| Total | | | | | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Central Workshop Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEAD OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1892). | Expenditure against closed Estimates. |
|--|-----------------|----------|-----------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | | | | | |
| O.—Miscellaneous | | | | | |
| TOTAL .. | | | | | |
| Total I.—WORKS .. | 2,73,427 | 71,595 | 3,45,022 | 3,05,578 | 2,89,054 |
| II.—ESTABLISHMENT. | | | | | |
| 5. DIRECTION | | | | | |
| 6. EXECUTIVE | | | | | |
| 7. MEDICAL | | | | | |
| TOTAL .. | 59,843 | 15,498 | 75,341 | 78,546 | 75,341 |
| III.—TOOLS AND PLANT. | | | | | |
| 12. MISCELLANEOUS | | | | | |
| 13. REPAIRS AND CARRIAGE | | | | | |
| TOTAL .. | 2,28,072 | 4,617 | 2,33,289 | 2,33,513 | 3,289 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14. STOCK PURCHASES | | 14,760 | 14,760 | | |
| 15. WORKSHOP SUSPENSE | | 28,749 | 28,749 | | |
| 16. MISCELLANEOUS ADVANCES | | 23,870 | 23,870 | | |
| 17. STOCK | | —18,808 | —18,808 | | |
| 18. LONDON STORES | | 1,990 | 1,990 | | |
| TOTAL .. | 7,70,405 | 50,570 | 8,20,975 | | |
| GRAND TOTAL .. | 13,32,347 | 1,42,280 | 14,74,627 | 6,17,637 | 5,97,684 |
| V.—LESS RECEIPTS ON CAPITAL ACCOUNT .. | | 20,800 | 20,800 | 20,800 | 20,800 |
| Net Total .. | 13,32,347 | 1,21,480 | 14,53,827 | 5,96,837 | 5,76,884 |
| APPORTIONMENT. | | | | | |
| 55a.—IRRIGATION WORKS | 13,32,347 | 1,21,480 | 14,53,827 | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Central Workshop Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| Receipts. | IMPERIAL. | | | CHARGE. | IMPERIAL. | | |
|--|-----------|----------|----------|---|-----------|----------|----------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | | | | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| Owners' rates .. | | | | 1. Head Works .. | | —58,483 | —58,483 |
| Sales of water .. | | | | 2. Main Canal and Branches .. | | —4,492 | —4,492 |
| Receipts from Plantations .. | | | | 3. Distributaries .. | | | |
| Receipts from other Canal Produce. | | | | 4. Drainage and Protective Works. | | | |
| Rent of buildings .. | | 2 | 2 | Total 1 .. | | —62,975 | —62,975 |
| Fines .. | | | | 2.—MAINTENANCE AND REPAIRS. | | | |
| Miscellaneous and other Receipts. | | 1,52,003 | 1,52,003 | 1. Head Works .. | | | |
| Total .. | | 1,52,005 | 1,52,005 | 2. Main Canal and Branches .. | | 4,254 | 4,254 |
| Share of Land Revenue collected in the Civil Department. | | | | 3. Distributaries .. | | | |
| Interest on sale-proceeds on waste lands benefited. | | | | Total 2—Maintenance and Repairs. | | 4,254 | 4,254 |
| Total .. | | | | 3.—COMPENSATION. | | | |
| | | | | 4.—ESTABLISHMENT. | | | |
| | | | | 5. General Establishment including Direction and Account. | | | |
| | | | | 6. Revenue Establishment .. | | | |
| | | | | Total .. | | 92,350 | 92,350 |
| | | | | 5.—TOOLS AND PLANT. | | | |
| | | | | 1. Scientific Instruments and Drawing Materials. | | | |
| | | | | 2. Plant and Machinery .. | | | |
| | | | | 3. Tools .. | | | |
| | | | | 4. Navigation Plant .. | | | |
| | | | | 5. Camp Equipage .. | | 32,032 | 32,032 |
| | | | | 6. Live Stock .. | | | |
| | | | | 7. Office Furniture .. | | | |
| | | | | 8. Repairs and Carriage .. | | | |
| | | | | 12. Miscellaneous .. | | | |
| | | | | Total .. | | 32,032 | 32,032 |
| | | | | 5. Deduct RECOVERY ON REVENUE ACCOUNTS. | | | |
| | | | | Total .. | | 65,661 | 65,661 |
| | | | | Indirect charges debitable to Revenue Account as per Account No. 5. | | 12,260 | 12,260 |
| | | | | Total Charges .. | | 77,921 | 77,921 |
| | | | | Balance, Net Revenue .. | | 75,074 | 75,074 |
| | | | | Grand Total .. | | 1,52,005 | 1,52,005 |

(a) T m d e s - 4 14 on account of fees for collection of Revenue.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Central Workshop Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|--|---------|---|---------|
| Ra. | Rs. | | Rs. |
| Total Interest charges to end of 1910-20 .. | | Net Revenue realized to end of 1919-20 .. | |
| Total outlay up to 31st March 1917 .. 8,34,010 | | Do. during 1921-22 .. | 75,074 |
| Total outlay up to 31st March 1921 .. 4,98,337 | | | |
| Add half outlay during 1921-22 .. | | | |
| Interest at 3-3252 per cent. on Rs. 8,34,010 .. | | | |
| Interest at 5-1038 on Rs. 5,59,077 .. | | | |
| Total .. | 61,875 | | |
| Balance Revenue after defraying Interest charges | 13,199 | | |
| Total .. | 75,074 | Total .. | 75,074 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1920-21.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|--|-----------|----------|--------|
| Ra. | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue | | | |
| Leave and Pension Allowances | 9,048 | 2,986 | 12,034 |
| Total .. | 9,048 | 2,986 | 12,034 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue | | | |
| Leave and Pension Allowances .. 12,847 }
-587 } | | 12,260 | 12,260 |
| Total .. | | 12,260 | 12,260 |
| GRAND TOTAL .. | 9,048 | 15,246 | 24,294 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. | | |
|--|--|---|----------|--------------------|--------------------------------|------------------------------|--|-------------------------------|--|---------|
| | Expenditure against Construction Estimate. | Expenditure against open Canal sanctions. | Total. | Charges to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | Authority. | No. and date. | Amount. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| DIRECT CHARGES— | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | | Rs. |
| Works .. | | 2,89,054 | 2,89,054 | 55,908 | 16,524 | -39,444 | 3,45,022 | | W. I. Secy. No. 3899 | 4,352 |
| Establishment .. | | 75,341 | 75,341 | .. | 3,205 | 3,205 | 75,341 | | 2900 dated 1-5-22. | |
| Tools and Plant .. | | 2,33,289 | 2,33,289 | .. | 224 | 224 | 2,33,289 | | Secy. No. 2897/2898 | |
| Suspense Balance .. | | .. | .. | 8,20,975 | .. | -8,20,975 | 8,20,975 | | W. I. dated 1-5-22. | |
| Total .. | | 5,97,684 | 5,97,684 | 8,76,943 | 19,953 | -8,56,990 | 14,74,627 | | 1807 | 3,845 |
| Less Receipts on Capital Account. | | 20,800 | 20,800 | .. | .. | .. | 20,800 | | | |
| Net Total .. | | 5,76,884 | 5,76,884 | 8,76,943 | 19,953 | -8,56,990 | 14,53,827 | | | 10,456 |
| INDIRECT CHARGES— | | | | | | | | | | |
| Capitalized abatement of Land Revenue. Leave and Pension Allowances. | | 12,034 | 12,034 | .. | .. | .. | 2,034 | | 1608 dated 11-7-22 Secy. I. E. No. 02726, dated 30-8-22. | 1,300 |
| Total .. | | 12,034 | 12,034 | .. | .. | .. | 12,034 | | | |
| GRAND TOTAL .. | | 5,88,918 | 5,88,918 | 8,76,943 | 19,953 | -8,56,990 | 14,65,861 | Secretary, Irrigation Branch. | Total | 19,953 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sirhind Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | | | | | | | Cost of construction now estimated (Construction Estimate closed on 31st March 1906). | Expenditure against closed Estimates. |
|--------------------------------------|-----------------|----------|-------------|---------------|----------|-----------|-------------|----------|-------------|---|---------------------------------------|
| | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| I.—WORKS. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1. HEAD WORKS— | | | | | | | | | | | |
| A.—Preliminary Expenses .. | 483 | .. | 483 | 272 | .. | 272 | 755 | .. | 755 | | |
| B.—Land .. | 7,003 | .. | 7,003 | 3,974 | .. | 3,974 | 11,037 | .. | 11,037 | | |
| C.—Works .. | 9,40,928 | .. | 9,40,928 | 5,20,273 | .. | 5,20,273 | 14,70,201 | .. | 14,70,201 | | |
| E.—Building .. | 80,706 | 954 | 87,750 | 48,877 | 537 | 49,414 | 1,35,073 | 1,401 | 1,37,164 | | |
| O.—Miscellaneous .. | 73,804 | .. | 73,804 | 3,538 | .. | 3,538 | 77,342 | .. | 77,342 | | |
| P.—Maintenance .. | 24,104 | .. | 24,104 | 13,559 | .. | 13,559 | 37,603 | .. | 37,603 | | |
| TOTAL .. | 11,33,178 | 954 | 11,34,132 | 5,89,493 | 537 | 6,00,030 | 17,32,671 | 1,401 | 17,34,162 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | | | | | | | |
| A.—Preliminary Expenses .. | 23,536 | .. | 23,536 | 19,308 | .. | 19,308 | 42,934 | .. | 42,934 | | |
| B.—Land .. | 5,59,827 | .. | 5,59,827 | 2,54,332 | .. | 2,54,332 | 8,14,159 | .. | 8,14,159 | | |
| C.—Regulators .. | 4,18,720 | .. | 4,18,720 | 2,95,027 | .. | 2,95,027 | 7,13,747 | .. | 7,13,747 | | |
| E.—Falls and Weirs .. | 7,74,038 | .. | 7,74,038 | 3,97,909 | .. | 3,97,909 | 11,72,847 | .. | 11,72,847 | | |
| F.—(1) Other Cross Drainage Works .. | 12,32,587 | .. | 12,32,587 | 10,41,519 | .. | 10,41,519 | 22,74,136 | .. | 22,74,136 | | |
| G.—Bridges .. | 8,22,129 | .. | 8,22,129 | 4,89,672 | .. | 4,89,672 | 13,11,800 | .. | 13,11,800 | | |
| H.—Escapes .. | 1,86,686 | .. | 1,86,686 | 1,03,313 | .. | 1,03,313 | 2,89,999 | .. | 2,89,999 | | |
| I.—Navigation Works .. | 17,24,201 | .. | 17,24,201 | 3,84,340 | .. | 3,84,340 | 21,08,547 | .. | 21,08,547 | | |
| J.—Mills .. | 41,513 | .. | 41,513 | .. | .. | .. | 41,513 | .. | 41,513 | | |
| K.—Buildings .. | 9,69,323 | 21,350 | 9,90,673 | 3,10,359 | 13,610 | 3,23,969 | 12,85,682 | 34,975 | 13,20,657 | | |
| L.—Earthwork .. | 48,76,093 | .. | 48,76,093 | 31,01,614 | .. | 31,01,614 | 83,37,707 | .. | 83,37,707 | | |
| M.—Plantations .. | 1,20,812 | .. | 1,20,812 | 1,04,358 | .. | 1,04,358 | 2,25,170 | .. | 2,25,170 | | |
| N.—Tanks and Reservoirs .. | 1,940 | .. | 1,940 | .. | .. | .. | 1,940 | .. | 1,010 | | |
| O.—Miscellaneous .. | 87,897 | .. | 87,897 | 77,387 | .. | 77,387 | 1,65,284 | .. | 1,05,284 | | |
| P.—Maintenance .. | 2,27,821 | .. | 2,27,821 | 2,09,075 | .. | 2,09,075 | 4,36,890 | .. | 4,36,890 | | |
| TOTAL .. | 1,20,08,022 | 21,350 | 1,20,89,372 | 68,54,329 | 13,610 | 68,67,939 | 1,89,22,361 | 34,975 | 1,89,57,336 | | |
| 3.—DISTRIBUTARIES— | | | | | | | | | | | |
| A.—Preliminary Expenses .. | 51,003 | 926 | 52,834 | 39,471 | .. | 39,471 | 91,379 | 926 | 92,305 | | |
| B.—Land .. | 3,89,120 | .. | 3,89,120 | 72,601 | .. | 72,601 | 4,01,721 | .. | 4,01,721 | | |
| C.—Works .. | 14,25,116 | 21,529 | 14,46,645 | 7,95,007 | .. | 7,95,007 | 22,20,123 | 21,529 | 22,41,652 | | |
| L.—Earthwork .. | 16,81,487 | 18,563 | 17,00,050 | 9,77,702 | .. | 9,77,702 | 26,59,270 | 18,563 | 26,77,832 | | |
| O.—Miscellaneous .. | 2,59,890 | 233 | 2,60,123 | 17,803 | .. | 17,803 | 2,77,693 | 233 | 2,77,926 | | |
| P.—Maintenance .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| TOTAL .. | 38,07,521 | 41,251 | 38,48,772 | 19,02,674 | .. | 19,02,674 | 57,10,195 | 41,251 | 57,51,446 | | |
| Carried over .. | 1,70,08,721 | 63,601 | 1,70,72,322 | 93,56,506 | 14,150 | 93,70,656 | 2,63,65,227 | 77,717 | 2,64,42,944 | | |

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sirhind Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | | | | | | | Cont of construction as now estimated (Construction Estimate closed on 31st March 1905). | Expenditure against closed Estimates. |
|--|-----------------|----------|-------------|---------------|----------|-------------|-------------|----------|-------------|--|---------------------------------------|
| | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | |
| Brought over | 1,70,08,721 | 63,561 | 1,70,72,282 | 93,55,508 | 14,156 | 93,70,662 | 2,63,65,227 | 77,717 | 2,64,42,944 | | |
| I.—WORKS—consolid. | | | | | | | | | | | |
| A.—DRAINAGE AND PROTECTIVE WORKS. | | | | | | | | | | | |
| A.—Preliminary Expenses .. | 31 | .. | 31 | 17 | .. | 17 | 48 | .. | 48 | | |
| B.—Land .. | 53,982 | .. | 53,982 | 14,436 | .. | 14,436 | 1,00,518 | .. | 1,00,518 | | |
| C.—Works .. | 7,303 | .. | 7,303 | 1,858 | .. | 1,858 | 5,161 | .. | 5,161 | | |
| E.—Earthwork .. | 5,31,372 | .. | 5,31,372 | 4,24,002 | .. | 4,24,002 | 9,55,464 | .. | 9,55,464 | | |
| O.—Miscellaneous .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| P.—Maintenance .. | 2,622 | .. | 2,622 | 1,475 | .. | 1,475 | 4,007 | .. | 4,007 | | |
| TOTAL | 5,93,310 | .. | 5,93,310 | 4,71,978 | .. | 4,71,978 | 10,03,288 | .. | 10,03,288 | | |
| TOTAL I.—WORKS | 1,76,02,031 | 63,561 | 1,76,65,592 | 98,28,484 | 14,156 | 98,42,640 | 2,74,30,515 | 77,717 | 2,75,08,232 | 2,77,50,757 | 2,73,80,731 |
| II.—ESTABLISHMENT. | | | | | | | | | | | |
| 5. Direction (a) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 6. Executive .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 7. Medical .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 8. Special Survey .. | 46,92,160 | 35,507 | 47,27,667 | 28,33,400 | 1,011 | 28,31,411 | 75,25,500 | 36,548 | 75,62,108 | | |
| 9. Special Fixed Survey .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Leave and Pension Allowances. | .. | .. | .. | 5,40,404 | 160 | 5,40,564 | 5,40,404 | 160 | 5,40,564 | | |
| Total | 46,92,160 | 35,507 | 47,27,667 | 33,73,804 | 1,201 | 33,75,005 | 80,66,054 | 36,708 | 81,02,762 | 81,05,381 | 80,84,465 |
| III.—TOOLS AND PLANT | | | | | | | | | | | |
| 9. Navigation Plant .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 10. Mill Plant .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 11. Railway Plant and Rolling Stock. | 21,06,305 | 1,200 | 21,07,511 | 11,91,008 | 10 | 11,91,0 | 32,97,313 | 1,210 | 32,98,520 | | |
| 12. Miscellaneous .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 13. Repairs and Carriage Loss by Exchange .. | 2,740 | .. | 2,740 | 10,508 | .. | 10,508 | 13,308 | .. | 13,308 | | |
| Total | 21,09,045 | 1,208 | 21,10,251 | 12,01,576 | 10 | 12,01,586 | 33,10,621 | 1,216 | 33,11,837 | 33,16,953 | 33,12,005 |
| IV.—SUSPENSE ACCOUNT. | | | | | | | | | | | |
| 13. Stock .. | 3,17,692 | —5,793 | 3,11,899 | .. | .. | .. | 3,17,692 | —5,793 | 3,11,899 | | |
| 14. Stock Purchases .. | —1,934 | +148 | —1,786 | .. | .. | .. | —1,934 | 148 | —1,786 | | |
| 15. Stock Sales .. | 973 | .. | 973 | .. | .. | .. | .. | .. | .. | | |
| 16. Miscellaneous Advances .. | +338 | 14,673 | 15,011 | .. | .. | .. | .. | .. | .. | | |
| 17. London Invoices .. | .. | .. | .. | .. | .. | .. | 1,311 | 14,673 | 15,984 | | |
| 18. London Stores .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Total | 3,17,069 | 9,028 | 3,26,097 | .. | .. | .. | 3,17,069 | 9,028 | 3,26,097 | | |
| GRAND TOTAL | 2,47,20,305 | 1,00,302 | 2,48,20,607 | 1,44,03,954 | 15,367 | 1,44,19,321 | 3,01,24,259 | 1,24,609 | 3,02,48,868 | 3,02,42,901 | 3,87,96,200 |
| V.—Less RECEIPTS ON CAPITAL ACCOUNT. | 1,07,518 | .. | 1,07,518 | 68,608 | .. | 68,608 | 1,76,120 | .. | 1,76,120 | 1,76,120 | 1,76,120 |
| Net Total | 2,46,12,787 | 1,00,302 | 2,47,22,089 | 1,43,35,346 | 15,367 | 1,43,50,713 | 3,80,48,133 | 1,24,609 | 3,80,72,802 | 3,80,66,965 | 3,86,20,076 |
| APPORTIONMENT | | | | | | | | | | | |
| 19.—Irrigation Works .. | 2,46,12,787 | 1,00,302 | 2,47,22,089 | 1,43,35,346 | 15,367 | 1,43,50,713 | 3,80,48,133 | 1,24,609 | 3,80,72,802 | 3,80,66,965 | 3,86,20,076 |
| 20.—M. W. and Navigation— | | | | | | | | | | | |
| Imperial | | | | | | | | | | | |
| Provincial | | | | | | | | | | | |

(a) Share of Accounts Establishment excluded from 1913-14 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22,

Sirhind Canal Project.

No. 2.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|---|-------------|-----------|-------------|---------------|----------|-----------|-------------|-----------|--------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 'Occupiers' rates | 9,63,97,040 | 48,30,923 | 9,12,27,963 | 24,075 | 651 | 24,726 | 8,64,21,115 | 48,31,574 | 9,12,52,689 |
| Sales of water | 5,32,299 | 29,303 | 5,70,602 | 18,877 | 38 | 18,915 | 5,61,176 | 38,341 | 5,69,517 |
| Supply of towns | 5,033 | — | 5,033 | — | — | — | 5,033 | — | 5,033 |
| Receipts from Plantations .. | 6,00,003 | 31,224 | 5,37,227 | 3,03,214 | 21,830 | 3,25,044 | 0,09,217 | 53,054 | 9,62,271 |
| Receipts from other Canal pro-
ducts. | 1,92,027 | 55 | 1,02,082 | 1,03,293 | — | 1,03,293 | 2,95,320 | 55 | 2,95,375 |
| Water power | 25,12,177 | 1,56,513 | 26,68,690 | 11,24,003 | 1,02,731 | 12,26,734 | 36,30,180 | 2,59,244 | 32,25,424 |
| Navigation Receipt | 2,76,438 | 10,482 | 2,92,920 | 1,39,400 | 8,601 | 1,48,261 | 4,15,838 | 25,343 | 4,41,181 |
| Rent of buildings | 1,43,011 | 4,088 | 1,47,699 | 55,331 | 117 | 55,448 | 1,08,042 | 4,203 | 2,03,147 |
| Fines | 52,900 | 1,203 | 54,100 | 510 | — | 510 | 53,422 | 1,203 | 54,625 |
| Miscellaneous and other Receipts | 21,55,400 | 1,72,350 | 23,27,750 | 54,378 | 1,207 | 55,645 | 22,09,838 | 1,73,587 | 23,83,425 |
| Deduct—Refunds | — | 1,222 | 1,222 | — | — | — | — | 1,222 | 1,222 |
| Total | 9,58,72,804 | 52,70,890 | 9,81,52,583 | 18,23,087 | 1,55,405 | 19,78,582 | 9,40,16,681 | 54,15,784 | 10,01,11,465 |
| Share of Land Revenue collect-
ed in the Civil Department. | 7,43,170 | 1,26,077 | 8,69,247 | — | — | — | 7,43,170 | 1,26,077 | 8,69,247 |
| Interest on sale-proceeds of
waste land allotted. | — | — | — | — | — | — | — | — | — |
| Total Receipts | 9,30,10,104 | 54,06,160 | 9,80,12,110 | 18,23,087 | 1,35,405 | 19,58,482 | 9,54,30,251 | 55,41,461 | 10,09,60,712 |

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sirhind Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| CHARGES. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|--|--------------------|-----------|-------------|---------------|----------|-------------|-------------|-----------|-------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1—EXTENSIONS AND IMPROVEMENTS. | | | | | | | | | |
| (1)—HEAD WORKS .. | 2,32,704 | 3,782 | 2,36,486 | 1,30,978 | 2,133 | 1,33,131 | 3,63,703 | 5,026 | 3,68,729 |
| (2)—MAIN CANAL AND BRANCHES | 11,01,760 | 21,720 | 11,23,480 | 21,28,219 | 1,60,235 | 23,88,454 | 35,01,015 | 1,00,984 | 36,01,999 |
| (3)—DISTRIBUTARIES | 0,73,873 | 42,674 | 1,16,547 | 14,262 | .. | 14,262 | 9,88,135 | 42,674 | 10,30,809 |
| (4)—DRAINAGE AND PROTECTIVE WORKS. | 44,365 | .. | 44,365 | 22,250 | .. | 22,250 | 60,615 | .. | 60,615 |
| TOTAL (1) ... | 24,13,703 | 68,105 | 24,81,808 | 25,95,750 | 1,71,338 | 27,67,147 | 50,09,457 | 2,30,553 | 52,39,010 |
| 2.—MAINTENANCE AND REPAIRS. | | | | | | | | | |
| (1)—HEAD WORKS.. | 9,33,542 | 18,785 | 9,52,327 | 4,67,505 | 9,439 | 4,76,944 | 13,07,217 | 28,224 | 13,35,441 |
| (2)—MAIN CANAL AND BRANCHES | 63,30,263 | 2,31,300 | 65,61,563 | 31,30,654 | 1,00,237 | 32,30,891 | 84,82,917 | 3,31,516 | 88,14,433 |
| (3)—DISTRIBUTARIES | 52,75,810 | 1,63,151 | 54,38,961 | 366 | .. | 366 | 52,76,260 | 1,60,131 | 54,36,391 |
| (4)—DRAINAGE WORKS | 5,52,695 | 6,919 | 5,59,614 | 3,45,668 | 4,411 | 3,50,079 | 8,99,363 | 11,389 | 9,10,752 |
| (7)—LOSSES ON STOCK | .. | 2,507 | 2,507 | .. | 253 | 253 | .. | 2,807 | 2,807 |
| TOTAL (2) | 1,20,27,313 | 4,19,723 | 1,24,47,036 | 39,44,333 | 1,14,372 | 40,58,705 | 1,59,21,736 | 5,34,037 | 1,64,55,773 |
| 3—COMPENSATION ... | 36,368 | .. | 36,368 | 13,450 | .. | 13,450 | 49,824 | .. | 49,824 |
| 4—ESTABLISHMENT .. | | | | | | | | | |
| (1)—DIRECTION AND ACCOUNT.. | | | | | | | | | |
| (2)—EXECUTIVE ESTABLISHMENT. | (b)
1,11,91,833 | | | | | | | | |
| (3)—MEDICAL do. .. | | 9,23,770 | 1,54,18,603 | 31,07,993 | 1,53,916 | 32,61,909 | 1,76,02,826 | 10,77,636 | 1,86,80,462 |
| (4)—REVENUE do. ... | | | | | | | | | |
| (5)—NAVIGATION do. .. | | | | | | | | | |
| (6)—LEAVE AND PENSION ALLOWANCES (11 PER CENT. ON Rs. 1,09,761). | .. | | | | 21,548 | | | 21,548 | |
| TOTAL .. | 1,41,94,833 | 9,23,770 | 1,51,18,603 | 31,07,993 | 1,75,464 | 32,83,457 | 1,76,02,826 | 10,99,184 | 1,86,99,010 |
| TOTAL CARRIED OVER .. | 2,83,72,252 | 14,11,030 | 3,03,83,282 | 93,61,601 | 4,61,244 | 1,01,22,845 | 3,86,33,853 | 19,72,914 | 4,05,96,767 |

(a) Includes designations amounting to Rs. 1,56,869 during the year.

(b) Share of Account Establishment under Imperial excluded from 1914-15 to 1917-18.

IRRIGATION BRANCH.

PUNJAB PROVINCE-

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sirhind Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| CHARGES. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|--|-------------|-----------|-------------|---------------|-----------|-------------|-------------|-----------|--------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Total brought over .. | 2,89,72,252 | 14,11,693 | 3,03,83,945 | 96,61,601 | 4,61,224 | 1,01,22,825 | 3,86,53,853 | 18,72,914 | 4,05,06,767 |
| (5) TOOLS AND PLANT. | | | | | | | | | |
| (1)—SCIENTIFIC INSTRUMENTS AND DRAWING MATERIALS. | | | | | | | | | |
| (2)—PLANT AND MACHINERY | | | | | | | | | |
| (3)—TOOLS .. | | | | | | | | | |
| (4)—NAVIGATION .. | 5,38,300 | 9,158 | 5,47,458 | 2,07,387 | 2,217 | 2,09,604 | 7,45,093 | 11,375 | 7,56,468 |
| (5)—CAMP EQUIPAGE .. | | | | | | | | | |
| (6)—LIVE STOCK .. | | | | | | | | | |
| (7)—OFFICE FURNITURE .. | | | | | | | | | |
| (8)—REPAIRS AND CARRIAGE .. | | | | | | | | | |
| MISCELLANEOUS .. | | | | | | | | | |
| TOTAL .. | 5,38,300 | 9,158 | 5,47,458 | 2,07,387 | 2,217 | 2,09,604 | 7,45,093 | 11,375 | 7,56,468 |
| Deduct.—RECOVERIES ON REVENUE ACCOUNT. | | 3,056 | 3,056 | | 83 | 83 | | 3,141 | 3,141 |
| (6)—REFUNDS OF REVENUE | 85,041 | | 85,041 | 6,955 | | 6,955 | 92,896 | | 92,896 |
| (7)—PROFIT AND LOSS .. | 372 | | 372 | 85 | | 85 | 457 | | 457 |
| (8)—SUSPENSE ACCOUNT .. | | | | | | | | | |
| MISCELLANEOUS ADVANCES .. | | | | 12 | 1 | 13 | 12 | 1 | 13 |
| STOCK .. | | | | 23,179 | —8,107 | 15,072 | 23,179 | —8,105 | 15,074 |
| STOCK SALES .. | | | | | | | | | |
| STOCK PURCHASES .. | | | | | | | | | |
| TOTAL SUSPENSE ACCOUNT .. | | | | 23,191 | —8,107 | 15,084 | 23,191 | —8,107 | 15,084 |
| TOTAL .. | 2,95,90,874 | 14,17,700 | 3,10,14,664 | 98,99,219 | 4,63,251 | 1,03,62,470 | 3,94,96,093 | 18,33,041 | 4,13,69,134 |
| Indirect Charges debitables to Revenue Account as per Account No. 5. | 20,40,123 | 1,31,889 | 21,75,012 | | | | 20,40,123 | 1,34,889 | 21,75,012 |
| TOTAL CHARGES .. | 3,16,30,997 | 15,52,679 | 3,31,83,676 | 98,99,219 | 4,63,251 | 1,03,62,470 | 4,15,36,216 | 20,07,930 | 4,35,44,146 |
| BALANCE NET REVENUE .. | 6,10,79,167 | 38,53,287 | 6,58,32,454 | —80,70,132 | —3,10,763 | —83,80,895 | 6,30,03,055 | 35,31,531 | 6,74,30,586 |
| GRAND TOTAL .. | 3,36,10,164 | 54,05,966 | 3,90,22,130 | 18,18,087 | 1,35,488 | 19,53,575 | 4,75,39,271 | 55,41,461 | 10,09,80,732 |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sirhind Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|---|-------------|---|-------------|
| | Rs. | | Rs. |
| Total Interest charges to end of 1919-20 .. | 3,73,01,558 | Net Revenue realised to end of 1920-21 .. | 6,19,79,167 |
| „ outlay to end of 31-3-17 Rs. 2,43,81,660 .. | .. | Do. do. during 1921-22 .. | 33,53,287 |
| | Rs. | | |
| Total outlay from 1-4-17 to end of March 1921 .. | 2,31,125 | | |
| Add half outlay during 1921-22 .. | 54,651 | | |
| Total .. | 2,85,778 | | |
| Interest at 3.3252 per cent. on Rs. 2,13,81,660 .. | 8,10,736 | | |
| Interest at 6.1038 per cent. on Rs. 2,85,778 .. | 17,443 | | |
| Total .. | 3,81,29,746 | | |
| Balance Revenue after defraying Interest charges .. | 2,77,02,714 | | |
| Total .. | 6,53,32,454 | Total .. | 6,58,32,454 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| Particulars. | Previous. | 1921-22. | Total. |
|---|-----------|----------|-----------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue .. | 3,20,374 | .. | 3,20,374 |
| Leave and Pension Allowances .. { Imperial .. | 8,96,530 | 5,000 | 9,01,530 |
| .. { Contribution .. | 5,40,404 | 160 | 5,40,654 |
| Audit and Accounts Establishment .. | .. | 636 | 636 |
| Total .. | 17,57,407 | 5,855 | 17,63,263 |
| Deduct— Leave and pension allowances debited to Native States treated as direct charges and transferred to Account No. 2 of the canal .. | 5,40,404 | 160 | 5,40,654 |
| Net debitabie to Imperial Canal .. | 12,16,913 | 5,695 | 12,22,608 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue .. | 10,851 | .. | 10,851 |
| Leave and Pension Allowances .. { Imperial .. | 20,20,272 | 1,30,010 | 21,50,282 |
| .. { Contribution .. | 3,82,406 | 21,518 | 4,03,954 |
| Audit and Accounts Establishment .. | .. | 4,870 | 4,870 |
| Total .. | 21,22,529 | 1,56,437 | 25,78,966 |
| Deduct— Leave and Pension allowances debited to Native States treated as direct charges and transferred to Account No. 3 of the canal .. | 3,82,406 | 21,518 | 4,03,954 |
| Net Imperial Revenue .. | 17,40,123 | 1,34,919 | 18,75,042 |

No. 8.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. | | |
|--|--|---|-------------|--------------------|--------------------------------|------------------------------|--|-------------------------------|------------------------------------|----------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | Authority. | No. and date. | Amount. |
| IMPERIAL. | Rs. | Pes. | Lks. | Rs. | Rs. | Rs. | Rs. | | | Rs. |
| DIRECT CHARGES— | | | | | | | | | | |
| Works .. | 1,50,33,073 | 19,25,108 | 1,75,58,781 | 1,06,811 | 58,160 | 2,51,049 | 1,76,05,502 | Secretary, Irrigation Branch. | W. I. 0761
25-7-17
W. I. 794 | 5,480 |
| Establishment .. | 42,71,854 | 4,55,813 | 17,27,667 | .. | 68,419 | 68,419 | 47,27,667 | Do. | 4-3-18
604 | 3,038 |
| Tools and Plant .. | 20,82,854 | 27,397 | 21,10,251 | .. | 4,770 | 4,770 | 21,10,251 | G. of I. | 8-11-17
W. I. 9549 | 60,044 |
| Suspense Balances .. | .. | .. | .. | 3,26,097 | .. | -3,20,097 | 3,20,097 | | 9-3-20
W. I. 197 | 7,026 |
| Total .. | 2,19,88,381 | 24,08,318 | 2,43,96,699 | 4,32,908 | 4,31,649 | -1,259 | 2,48,29,007 | | 2-6-19
W. I. 759 | 1,194 |
| Less Receipts on Capital Account. | 1,07,518 | .. | 1,07,518 | .. | .. | .. | 1,07,518 | | 21-2-20
W. I. 510 | 2,474 |
| Net Total .. | 2,18,80,863 | 24,08,318 | 2,42,89,181 | 4,32,908 | 4,31,649 | -1,259 | 2,47,22,089 | | 1-5-19
W. I. 629 | 6,939 |
| INDIRECT CHARGES— | | | | | | | | | | |
| Capitalized abatement of Land Revenue. | 3,16,276 | 5,095 | 3,20,371 | .. | .. | .. | 3,20,371 | | 1-2-21
W. I. 614 | 4,680 |
| Leave and Pension Allowances. | 8,37,694 | 63,905 | 9,01,599 | .. | .. | .. | 9,01,599 | | 1-2-21
W. I. 110 | 4,566 |
| Audit and Account .. | .. | 636 | 636 | .. | .. | .. | 636 | | 11-3-21
W. I. 0106 | 9,783 |
| Total .. | 11,52,073 | 69,030 | 12,22,609 | .. | .. | .. | 12,22,609 | | 23-5-21
W. I. 3207 | 7,236 |
| GRAND TOTAL | 2,30,33,839 | 24,77,951 | 2,55,11,790 | 4,32,908 | 4,31,649 | -1,251 | 2,59,44,698 | | 2-11-21
W. I. 3038 | 4,261 |
| CONTRIBUTION. | | | | | | | | | | |
| DIRECT CHARGES— | | | | | | | | | | |
| Works .. | 93,63,025 | 4,91,923 | 98,37,950 | 11,090 | 11,506 | -124 | 98,42,040 | | 19-12-21
404 S. I. | 1,056 |
| Establishment .. | 32,68,604 | 1,01,871 | 33,69,475 | 7,202 | 2,497 | -4,705 | 33,75,077 | | 21-1-22
W. I. 0201 | 3,388 |
| Tools and Plant ... | 11,05,080 | 5,778 | 12,01,758 | -172 | 174 | 346 | 12,01,680 | | 23-5-22
W. I. 3537 | 2,76,510 |
| Suspense Balances .. | .. | .. | .. | .. | .. | .. | .. | | 16-11-21
W. I. 01527 | 12,870 |
| Total .. | 1,38,31,609 | 5,99,574 | 1,44,01,183 | 18,720 | 14,237 | -4,483 | 1,41,19,933 | | 14-9-21
W. I. 0035 | 5,240 |
| Less Receipts on Capital Account. | 88,003 | .. | 88,003 | .. | .. | .. | 88,003 | | 13-2-22
W. I. 907 | 4,598 |
| Not Total .. | 1,37,63,001 | 5,99,574 | 1,43,32,575 | 18,726 | 14,237 | -4,483 | 1,43,51,205 | | 13-2-22
W. I. 99 | 15,500 |
| GRAND TOTAL | 3,07,90,837 | 80,47,528 | 3,08,44,307 | 4,51,628 | 4,45,880 | -5,742 | 4,02,95,909 | | 10-5-21
W. I. 173 | 4,318 |
| | | | | | | | | Imperial Contribution. | | 4,45,880 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1900). | Expenditure against closed Estimates. |
|---------------------------------------|-----------------|---------------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| I.—WORKS. | Rs. | Rs. | Rs. | | |
| 1.—HEAD WORKS— | | | | | |
| A.—Preliminary Expenses | 5,710 | .. | 5,710 | | |
| B.—Land | 64,105 | .. | 64,105 | | |
| C.—Works | 59,24,222 | 14,707 | 59,38,929 | | |
| E.—Buildings | 97,001 | —368 | 97,533 | | |
| O.—Miscellaneous | 6,084 | .. | 6,084 | | |
| F.—Maintenance | 1,68,781 | .. | 1,68,781 | | |
| Total | 62,66,806 | 14,339
(a) | 62,81,145 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 1,26,369 | .. | 1,26,369 | | |
| B.—Land | 1,06,786 | .. | 1,06,786 | | |
| D.—Regulators | 11,10,890 | .. | 11,10,890 | | |
| E.—Falls and Weirs | 6,18,284 | .. | 6,18,284 | | |
| F.—(1) —Other Cross Drainage Works .. | 6,87,002 | .. | 6,87,002 | | |
| G.—Bridges | 10,60,607 | .. | 10,60,607 | | |
| H.—Escapes | 5,42,313 | .. | 5,42,313 | | |
| J.—Mills | 73,020 | .. | 73,020 | | |
| K.—Buildings | 17,32,479 | 34,648 | 17,67,127 | | |
| L.—Earthwork | 75,24,803 | .. | 75,24,803 | | |
| M.—Plantations | 1,39,734 | .. | 1,39,734 | | |
| O.—Miscellaneous | 3,96,857 | .. | 3,96,857 | | |
| P.—Maintenance | 1,05,047 | .. | 1,05,047 | | |
| Q.—Loss of Stock | 326 | .. | 326 | | |
| Total | 1,43,14,517 | 34,648
(a) | 1,43,49,165 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 1,38,860 | .. | 1,38,860 | | |
| B.—Land | 66,116 | .. | 66,116 | | |
| C.—Works | 18,53,678 | 426 | 18,54,104 | | |
| L.—Earthwork | 27,30,509 | .. | 27,30,509 | | |
| O.—Miscellaneous | 5,68,865 | .. | 5,68,865 | | |
| P.—Maintenance | 34,570 | .. | 34,570 | | |
| Total | 53,92,697 | 426
(a) | 53,93,123 | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1900). | Expenditure against closed Estimates. |
|---|----------------|----------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| 4.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | 19,771 | .. | 19,771 | | |
| B.—Land | 24,602 | . | 24,602 | | |
| C.—Works | 47,446 | .. | 47,446 | | |
| D.—Earthwork | 1,78,736 | . | 1,78,736 | | |
| O.—Miscellaneous | 37,550 | .. | 37,550 | | |
| P.—Maintenance | 1,162 | .. | 1,162 | | |
| TOTAL | 3,09,267 | .. | 3,09,267 | | |
| 5.—WATER COURSES— | | | | | |
| | .. | 6,544 | 6,544 | | |
| TOTAL I.—WORKS | 2,62,83,287 | 65,957 | 2,63,39,244 | 66,94,574 | 2,59,11,662 |
| II.—ESTABLISHMENT | | | | | |
| 5. DIRECTION | (a) 50,02,121 | 26,954 | 50,29,075 | | |
| 6. EXECUTIVE | | | | | |
| 7. MEDICAL | | | | | |
| 8. SPECIAL SURVEY | | | | | |
| 8½. SPECIAL FIELD SURVEY | .. | .. | .. | | |
| LEAVE AND PENSION ALLOWANCES | .. | .. | .. | | |
| TOTAL | 50,02,121 | 26,954 | 50,20,075 | 51,66,366 | 50,29,075 |
| III.—TOOLS AND PLANT. | | | | | |
| 9. NAVIGATION PLANT | 6,35,578 | 2,586 | 6,38,164 | | |
| 10. MILL PLANT | | | | | |
| 11. RAILWAY PLANT AND ROLLING STOCK | | | | | |
| 12. MISCELLANEOUS | | | | | |
| 13. REPAIRS AND CARRIAGE | | | | | |
| LOSS BY EXCHANGE | .. | .. | .. | | |
| TOTAL | 6,35,578 | 2,586 | 6,38,164 | 7,16,640 | 6,38,164 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14. STOCK | 3,55,748 | 51,216 | 4,06,964 | | |
| 15. „ PURCHASES | —13,528 | 7,141 | —6,387 | | |
| 15. (a) „ SALES | 13,714 | 15,067 | 28,781 | | |
| 16. MISCELLANEOUS ADVANCES | | | | | |
| 17. LONDON INVOICES | .. | .. | .. | | |
| 18. „ STORES | .. | .. | .. | | |
| TOTAL | 3,55,934 | 73,424 | 4,29,358 | | |
| GRAND TOTAL | 3,22,76,920 | 1,58,921 | 3,24,35,841 | 3,25,76,560 | 3,15,78,901 |
| V.—LESS RECEIPTS RECOVERIES ON CAPITAL ACCOUNT. | | | | | |
| | 14,558 | 1,330 | 15,888 | 15,888 | 15,888 |
| NET TOTAL | 3,22,62,362 | 1,57,591 | 3,24,19,953 | 3,25,60,692 | 3,15,63,013 |
| APPORTIONMENT. | | | | | |
| 49.—IRRIGATION WORKS | 3,22,47,952 | 1,57,591 | 3,24,05,543 | | |
| 43.—M. W. AND NAVIGATION, IMPERIAL | 14,410 | .. | 14,410 | | |

(a) Excludes share of Accounts Establishment commencing from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Chenab Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|--------------|-------------|--------------|---|--------------|-------------|--------------|
| | Previous | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | (1)—EXTENSIONS AND IMPROVEMENTS. | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 10,71,22,689 | 89,64,166 | 17,60,86,855 | 1.—HEAD WORKS | 18,51,150 | 43,422 | 18,94,572 |
| Owners' rates on irrigated land | 58,13,828 | .. | 58,13,828 | 2.—MAIN CANAL AND BRANCHES | 14,34,782 | 43,177 | 14,77,959 |
| Sales of water .. | 4,07,378 | 35,807 | 4,43,185 | 3.—DISTRIBUTARIES | 17,87,925 | 61,059 | 18,48,983 |
| Supply of towns .. | 41,204 | 13,707 | 55,061 | 4.—DRAINAGE AND PROTECTIVE WORKS. | 2,70,290 | 6,759 | 2,81,048 |
| Receipts from plantations. | 2,83,815 | 30,378 | 3,14,213 | TOTAL (1) .. | 53,53,147 | 1,55,015 | 55,08,162 |
| Receipts from other Canal produce. | 85,005 | 955 | 85,960 | (2)—MAINTENANCE AND REPAIRS. | | | |
| Water power .. | 3,47,115 | 17,373 | 3,64,488 | 1.—HEAD WORKS | 22,22,537 | 1,48,063 | 23,71,200 |
| Navigation .. | 517 | .. | 517 | 2.—MAIN CANAL AND BRANCHES | 1,08,71,676 | 4,44,174 | 1,11,16,150 |
| Rent of Buildings .. | 2,76,837 | 16,605 | 2,93,402 | 3.—DISTRIBUTARIES | 57,14,359 | 3,41,491 | 60,55,849 |
| Fines .. | 47,788 | 4,123 | 51,886 | 4.—DRAINAGE AND PROTECTIVE WORKS. | 1,73,300 | 15,317 | 1,93,677 |
| Miscellaneous and other Receipts | 5,33,391 | 39,430 | 5,72,811 | 5.—LOTTES ON STOCK | .. | 1,177 | 2,177 |
| Recoveries of sale of T. & P. expenditure .. | .. | (b) 911 | 911 | TOTAL (2) .. | 1,87,57,171 | 9,51,942 | 1,97,32,053 |
| Total .. | 17,49,59,667 | 91,23,450 | 18,40,82,117 | (3)—COMPENSATION. | 1,10,622 | .. | 1,10,622 |
| Refunds .. | .. | 1,169 | 1,169 | (4)—ESTABLISHMENT. | | | |
| Net To .. | 17,49,59,667 | 91,22,281 | 18,40,80,948 | 1.—DEFECTION AND ACCOUNT | 1,07,63,039 | 10,66,343 | 1,18,30,322 |
| Share of Land Revenue collected in the Civil Department. | 7,20,32,655 | 67,83,610 | 7,88,16,265 | 2.—MEDICAL Do. | 1,14,64,766 | 5,35,132 | 1,10,09,898 |
| Interest on sale-proceeds of waste land benefited | 1,07,32,257 | 0,30,730 | 1,17,62,987 | 3.—A.—REVENUE Do. | 2,22,23,705 | 16,01,515 | 2,38,30,220 |
| Total .. | 8,27,64,012 | 78,14,370 | 9,05,78,382 | TOTAL (4) .. | 8,17,764 | 53,277 | 8,71,041 |
| Total Receipts .. | 25,77,23,579 | 1,69,36,651 | 27,46,60,230 | TOTAL .. | 8,17,764 | 53,277 | 8,71,041 |
| | | | | (5)—TOOLS AND PLANT .. | 1,36,119 | .. | 1,36,119 |
| | | | | TOTAL .. | 4,74,33,528 | 27,61,649 | 5,01,95,217 |
| | | | | RECOVERIES OF REVENUE ACCOUNTS. | .. | 1,213 | 1,213 |
| | | | | NET TOTAL .. | 4,74,33,528 | 27,63,476 | 5,01,94,001 |
| | | | | Indirect charges debitable to Revenue Account as per Account No. 5. | 31,16,317 | 2,31,281 | 33,51,598 |
| | | | | TOTAL CHARGES .. | 5,05,49,845 | 29,95,757 | 5,35,45,602 |
| | | | | Balance Net Revenue .. | 22,71,73,734 | 1,33,40,894 | 22,11,14,628 |
| | | | | GRAND TOTAL .. | 25,77,23,579 | 1,69,36,651 | 27,46,60,230 |

(a) Excludes share of Accounts Establishment commencing from 1912-13 to 1917-18.

(b) Erroneously credited to Revenue by the Treasury and Audit Officer, Lyallpur, will be credited to proper head in the account for the next year.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

No. 5.--ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST OLD SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. |
|--|--|--|---------------|-------------------------|---------------------------------------|------------------------------------|--|--|
| | Expenditure against Construction Estimates.
Rs. | Expenditure against open canal sanctions.
Rs. | Total.
Rs. | Charged to date.
Rs. | Amount of Sanctioned Estimate.
Rs. | Unpaid Balance of Estimate.
Rs. | | |
| DIRECT CHARGES | | | | | | | | |
| Works .. | 1,00,23,902 | 58,58,160 | 1,58,82,062 | 4,27,652 | 7,62,912 | 3,35,260 | 2,63,39,244 | Govt. of India No. 530-I. Rs. = 1,75,752
2-4-13
609-I. = 22,338
6-1-14
1206-I. = 1,48,607
25-8-14
6826 = 2,79,716
2-9-19
3283-C.L. = 22,471 |
| Establishment .. | 30,40,066 | 13,19,600 | 43,59,666 | .. | 1,37,291 | 1,37,291 | 50,20,075 | " 8-12-17
8270-W.I. = 10,638
8-12-17
2792-W.I. = 15,161
22-11-19
1666-W.I. = 7,167
21-4-21
1391-W.I. = 3,328
17-3-21
1550-W.I. = 25,397
20-3-21
1687-C.I. = 28,007
30-3-21
6658 = 4,822
12-7-21
1618 C.I. = 3,442
1-4-21
228-C.I. = 5,760
2-6-21
1661-C.I. = 42,697 |
| Tools and Plant .. | 6,82,225 | 45,330 | 7,27,555 | .. | 77,476 | 77,476 | 6,32,101 | " |
| Suspense Balances .. | .. | .. | .. | 4,29,358 | .. | -4,29,358 | 4,29,358 | " |
| Total .. | 2,41,56,693 | 74,22,400 | 3,15,79,093 | 8,66,040 | 9,07,679 | 1,40,739 | 3,21,35,811 | Local Govt. No. 8-12-17
8270-W.I. = 10,638
8-12-17
2792-W.I. = 15,161
22-11-19
1666-W.I. = 7,167
21-4-21
1391-W.I. = 3,328
17-3-21
1550-W.I. = 25,397
20-3-21
1687-C.I. = 28,007
30-3-21
6658 = 4,822
12-7-21
1618 C.I. = 3,442
1-4-21
228-C.I. = 5,760
2-6-21
1661-C.I. = 42,697 |
| Less Receipts on Capital Account. | 14,163 | 1,456 | 15,619 | .. | .. | .. | 15,619 | " |
| Net Total .. | 2,41,41,690 | 74,21,323 | 3,15,63,013 | 8,66,040 | 9,07,679 | 1,40,739 | 3,21,19,853 | " |
| INDIRECT CHARGES | | | | | | | | |
| Capitalized abatement of Land Revenue. | 92,079 | 10,165 | 1,02,244 | .. | .. | .. | 1,02,244 | " |
| Leave and Pension Allowances. | 5,09,490 | 1,93,461 | 7,02,951 | .. | .. | .. | 7,02,951 | " |
| Accruals and Audit Charges. | .. | 559 | 559 | .. | .. | .. | 559 | " |
| Total ... | 9,01,540 | 2,04,203 | 1,10,753 | .. | .. | .. | 1,10,753 | " |
| GRAND TOTAL .. | 2,47,43,239 | 76,25,526 | 3,23,68,765 | 8,66,910 | 9,07,679 | 1,40,739 | 3,32,26,707 | " |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Sutlej Inundation Canals Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction now estimated (Construction Estimate closed on 31st March 1890.) | Expenditure against closed Estimates. |
|---|-----------------|----------|-----------|---|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 3,840 | .. | 3,840 | | |
| B.—Land | 43,848 | .. | 43,848 | | |
| D.—Regulators | 30,512 | .. | 30,512 | | |
| E.—Falls and Weirs | 60,015 | .. | 60,015 | | |
| G.—Bridges | 52,492 | .. | 52,492 | | |
| K.—Buildings | 2,24,604 | .. | 2,24,604 | | |
| L.—Earthwork | 5,52,555 | .. | 5,52,555 | | |
| O.—Miscellaneous | 5,112 | .. | 5,112 | | |
| P.—Maintenance | 2,457 | .. | 2,457 | | |
| TOTAL | 9,81,531 | .. | 9,81,531 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 3,842 | .. | 3,842 | | |
| B.—Land | 45,782 | .. | 45,782 | | |
| C.—Works | 82,930 | .. | 82,930 | | |
| L.—Earthwork | 2,35,365 | .. | 2,35,365 | | |
| O.—Miscellaneous | 22,911 | .. | 22,911 | | |
| P.—Maintenance | 4,652 | .. | 4,652 | | |
| TOTAL | 3,95,512 | .. | 3,95,512 | | |
| TOTAL I —WORKS | 13,80,046 | .. | 13,80,046 | 13,80,046 | 13,80,046 |
| II.—ESTABLISHMENT. | | | | | |
| 5.—DIRECTOR (a) | | | | | |
| 6.—EXECUTIVE | 2,96,735 | .. | 2,96,735 | | |
| 7.—MEDICAL | | | | | |
| TOTAL | 2,96,735 | .. | 2,96,735 | 2,96,735 | 2,96,735 |
| III.—TOOLS AND PLANT. | | | | | |
| 12.—MISCELLANEOUS | 24,820 | .. | 24,820 | | |
| 13.—REPAIRS AND CARRIAGE | | | | | |
| TOTAL | 24,820 | .. | 24,820 | 24,820 | 24,820 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14.—STOCK | 23,283 | —1,301 | 26,982 | | |
| 14 (a).—STOCK PURCHASES | —110 | 118 | 8 | | |
| 15.—STOCK SALES | | | | | |
| 16.—MISCELLANEOUS ADVANCES | 320 | —241 | 79 | | |
| TOTAL | 23,493 | —1,424 | 27,069 | | |
| GRAND TOTAL | 17,30,103 | —1,424 | 17,28,679 | 17,01,610 | 17,01,070 |
| V.—Less RECEIPTS ON CAPITAL ACCOUNT | | | | | |
| .. .. . | 156 | .. | 156 | 156 | 156 |
| NET TOTAL | 17,29,947 | —1,424 | 17,28,523 | 1,70,454 | 17,01,454 |
| APPORTIONMENT. | | | | | |
| 9.—IRRIGATION WORKS | 9,40,040 | —1,424 | 9,38,616 | | |
| 43.—M. W. AND NAVIGATION—IMPERIAL | 7,89,907 | .. | 7,89,907 | | |

(a) Share of Accounts Establishment excluded from 1912-13 to 1917-18.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL:
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Sutlej Inundation Canals Project.

No 3.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|-------------|----------------------------|-------------------------------|---|---------------|----------------|---------------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 1,08,85,249 | 5,29,063
—251 | 1,14,14,303
—251 | (1) EXTENSIONS AND IMPROVEMENTS. | | | |
| Owners' rates on irrigated land. | 17,732 | .. | 17,732 | 2—MAIN CANAL AND BRANCHES. | 4,46,019 | 1,336 | 4,46,354 |
| Sales of water .. | 3,474 | 66 | 3,470 | 3—DISTRIBUTARIES .. | 1,96,559 | 710 | 1,97,269 |
| | | | | 4—DRAINAGE AND PROTECTIVE WORKS. | 1,168 | .. | 1,168 |
| | | | | TOTAL (1) .. | 6,42,735 | 2,046 | 6,44,781 |
| Receipts from Plantations .. | 1,42,705 | 3,011 | 1,45,740 | (2)—MAINTENANCE AND REPAIRS. | | | |
| Receipts from other Canal Produce. | 78,438 | 798 | 79,236 | 1—HEAD WORKS .. | 10,379 | .. | 10,379 |
| Rent of Buildings .. | 15,945 | 736 | 16,681 | 2—MAIN CANAL AND BRANCHES. | 56,58,165 | 2,90,314 | 59,48,479 |
| Fines .. | 2,27,341 | 411 | 2,27,754 | 3—DISTRIBUTARIES .. | 10,27,375 | 36,718 | 10,64,093 |
| Miscellaneous and other Receipts | 62,830 | 6,081 | 69,811 | TOTAL (2) .. | 66,95,919 | 3,27,032 | 70,22,951 |
| Contribution .. | 22,835 | .. | 22,835 | (3)—COMPENSATION .. | 8,615 | .. | 8,615 |
| Deduct Refunds .. | .. | —584 | —584 | 5—DIRECTION AND ACCOUNT | | | |
| Total .. | 1,14,56,470 | 5,40,394
—251
+1,283 | 1,10,00,601
—251
+1,283 | 6—EXECUTIVE ESTABLISHMENT. | (a) 33,67,095 | 1,90,815 | (a) 35,48,810 |
| Share of Land Revenue collected in the Civil Department. | 86,77,929 | 2,37,160 | 89,15,089 | 7—MEDICAL ESTABLISHMENT. | | | |
| Interest on sale-proceeds of waste lands benefited. | 1,30,311 | .. | 1,30,311 | 7(A)—REVENUE ESTABLISHMENT. | 18,72,963 | 1,22,600 | 19,95,572 |
| | | | | (4)—ESTABLISHMENT .. | 52,30,968 | 311,424 | 53,42,392 |
| | | | | (5)—TOOLS AND PLANT .. | 96,567 | 4,058 | 1,00,625 |
| | | | | (6)—REFUNDS OF REVENUE. | 27,871 | .. | 27,871 |
| | | | | Deduct recoveries on Revenue Accounts. | .. | 2,839 | 2,839 |
| | | | | (7)—PROFIT AND LOSS .. | 379 | .. | 379 |
| | | | | TOTAL .. | 1,27,02,824 | 6,43,721 | 1,33,46,545 |
| | | | | Indirect Charges debitable to Revenue Account as per Account No. 5. | 7,95,095 | 47,031 | 8,42,726 |
| | | | | TOTAL CHARGES .. | 1,34,97,910 | 6,01,352 | 1,41,09,262 |
| | | | | Balance, Net Revenue .. | 67,76,821 | —251
87,100 | —251
86,83,311 |
| TOTAL RECEIPTS .. | 2,02,73,740 | 7,78,842
—251 | 2,10,52,583
—251 | GRAND TOTAL .. | 2,02,73,740 | 78,842
—251 | 2,10,52,583
—251 |

(a) Share of Accounts Establishment excluded from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Sutlej Inundation Canals Project.

N. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|---|---------------|---|---------------|
| Total Interest charges to end of 1920-21 .. | Rs. 21,38,102 | Net Revenue realized to end of 1920-21 .. | Rs. 67,75,821 |
| " " for the year 1921-22 .. | | " " during 1921-22 .. | 87,400 |
| Total outlay to end of 1916-17 .. | Rs. 17,18,805 | | -251 |
| Interest on Rs. 17,18,805 at 3.3252 % .. | 67,154 | | |
| Total during 1917-18 \| .. .. | 2,523 | | |
| Do. 1918-19 | -5,027 | | |
| Do. 1919-20 | -6,077 | | |
| Do. 1920-21 | -12,015 | | |
| Add outlay during 1921-22 .. | -712 | | |
| | 10,130 | | |
| Interest on Rs. 10,130 at 6.1038 % .. | 637 | | |
| Total Interest charges .. | 25,15,953 | | |
| Balance Revenue after defraying interest charges .. | 43,473,28 | | |
| Total .. | -251 | Total .. | 65,63,311 |
| | 68,63,311 | | -251 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|---|-----------|----------|----------|
| CAPITAL— | Rs. | Rs. | Rs. |
| Capitalization of abatement of Land Revenue | 58,033 | .. | 58,033 |
| Leave and Pension Allowances | 43,221 | .. | 43,221 |
| Total .. | 1,01,254 | .. | 1,01,254 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue | 13,123 | .. | 13,123 |
| Leave and Pension Allowances | 7,01,572 | 47,631 | 8,29,603 |
| A/G 3,291 | | | |
| L/P 43,217 | | | |
| Total 47,631 | 7,05,075 | 47,631 | 8,42,726 |
| " 1,01 | | | |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. |
|--|--|---|-----------|--------------------|--------------------------------|--------------------------------|--|----------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of sanctioned Estimate. | Unsettled Balance of Estimate. | | |
| DIRECT CHARGES— | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| Works | 10,07,761 | 3,72,385 | 13,80,016 | | | | 12,80,046 | |
| Establishment | 2,24,769 | 71,976 | 2,96,735 | .. | .. | .. | 2,96,735 | |
| Tool and Plant | 20,008 | 4,701 | 24,820 | .. | .. | .. | 24,820 | |
| Suspense | .. | .. | .. | 27,069 | .. | -27,069 | 27,069 | |
| Total .. | 12,52,538 | 4,49,022 | 17,01,610 | 27,069 | .. | -27,069 | 17,28,670 | |
| Less Receipts on Capital Account. | -150 | | 150 | | | | 150 | |
| Net Total .. | 12,52,432 | 4,49,022 | 17,01,654 | 27,069 | .. | -27,069 | 17,28,523 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue. | 53,631 | 4,352 | 58,033 | | | | 58,033 | |
| Leave and Pension Allowances. | 33,143 | 10,073 | 43,221 | | | | 43,221 | |
| Total .. | 86,829 | 14,425 | 1,01,254 | | | | 1,01,254 | |
| GRAND TOTAL .. | 13,39,261 | 4,63,447 | 18,02,708 | 27,069 | | -27,069 | 18,29,777 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sidhni Canal Project,

No. 2.—CAPITAL ACCOUNTS FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimates, closed on 31st March 1890). | Expenditure against closed Estimates. |
|-------------------------------|-----------------|----------|----------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | |
| 1.—HEAD WORKS— | | | | | |
| A.—Preliminary Expenses | 754 | | 754 | | |
| B.—Land | 235 | | 235 | | |
| C.—Works | 2,46,260 | | 2,46,260 | | |
| K.—Buildings | 11,646 | | 11,646 | | |
| O.—Miscellaneous | 301 | | 301 | | |
| Total .. | 2,59,286 | | 2,59,286 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 4,014 | | 4,014 | | |
| B.—Land | 22,422 | | 22,422 | | |
| D.—Regulators | 49,568 | | 49,568 | | |
| G.—Bridges | 44,980 | | 44,980 | | |
| K.—Buildings | 81,113 | 1,256 | 82,369 | | |
| L.—Earthwork | 2,58,996 | | 2,58,996 | | |
| M.—Plantations | 821 | | 821 | | |
| O.—Miscellaneous | 427 | | 427 | | |
| P.—Maintenance | 5,394 | | 5,394 | | |
| Total .. | 4,67,735 | 1,256 | 4,68,991 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 3,965 | | 3,965 | | |
| B.—Land | 11,387 | | 11,387 | | |
| C.—Works | 66,022 | | 66,022 | | |
| L.—Earthwork | 1,36,784 | | 1,36,784 | | |
| O.—Miscellaneous | 165 | | 165 | | |
| TOTAL .. | 2,18,923 | | 2,18,923 | | |

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sidhna Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimates closed on 31st March 1890). | Expenditure against closed Estimates |
|---|-----------------|----------|-----------|---|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS—CONCLUDED. | | | | | |
| Brought over .. | 9,45,044 | 1,256 | 9,47,200 | | |
| 4.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | 218 | | 218 | | |
| O.—Miscellaneous | 782 | 62 | 844 | | |
| TOTAL .. | 1,000 | 62 | 1,062 | | |
| TOTAL I.—WORKS .. | 9,46,044 | 1,318 | 9,48,262 | 9,51,500 | 9,47,548 |
| II.—ESTABLISHMENT. | | | | | |
| 5. Direction | 2,64,594 | 370 | 2,64,964 | | |
| 6. Executive | | | | | |
| 7. Medical | | | | | |
| TOTAL .. | 2,64,594 | 370 | 2,64,964 | 2,65,804 | 2,64,947 |
| III.—TOOLS AND PLANT. | | | | | |
| 12. Miscellaneous | 38,054 | 10 | 38,064 | | |
| 13. Repairs and Carriage | | | | | |
| TOTAL .. | 38,054 | 10 | 38,064 | 38,123 | 38,064 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14. Stock Purchases | —12 | 2 | —10 | | |
| 15. Stock Sales | 124 | | 124 | | |
| 16. Miscellaneous Advances | —117 | 41 | —76 | | |
| 17. Stock | 43,620 | —4,523 | 39,097 | | |
| TOTAL .. | 43,615 | —4,480 | 39,135 | | |
| GRAND TOTAL .. | 12,93,207 | —2,782 | 12,90,425 | 12,55,427 | 12,50,559 |
| V.—Less RECEIPTS ON CAPITAL ACCOUNTS .. | 224 | | 224 | 224 | 224 |
| NET TOTAL .. | 12,92,983 | —2,782 | 12,90,201 | 12,55,203 | 12,50,335 |
| APPORTIONMENT. | | | | | |
| 42.—Irrigation Works | 12,74,677 | —2,782 | 12,71,895 | | |
| 43 —K.W. and Navigation | | | | | |
| Imperial | | | | | |
| Provincial | 18,306 | | 18,306 | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Siddhni Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | INTERNAL. | | | CHARGES. | EXPENDITURE. | | |
|--|-------------|----------|-------------|---|--------------|----------|-------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 1,14,26,446 | 1,43,631 | 1,15,70,076 | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| Owners' rates .. | 46 | .. | 46 | 1.—Head Works .. | 34,009 | .. | 34,009 |
| Sales of water .. | 45,889 | 512 | 46,401 | 2.—Main Canal and Branches | 1,92,029 | 2,060 | 1,94,088 |
| Receipts from Plantations .. | 15,025 | 2,406 | 17,431 | 3.—Distributaries .. | 1,03,264 | 15,945 | 1,19,209 |
| Receipts from other Canal produce. | 12,070 | 67 | 12,137 | 4.—Drainage and Protective Works. | 508 | .. | 508 |
| Rent of buildings .. | 21,882 | 3 | 21,885 | Total I .. | 3,29,810 | 18,014 | 3,48,724 |
| Fishes .. | 9,375 | 60 | 9,435 | (2).—MAINTENANCE AND REPAIRS. | | | |
| Miscellaneous and other Receipts. | 22,212 | 1,433 | 23,735 | 1.—Head Works .. | 3,77,095 | 12,370 | 3,89,465 |
| Deduct Refunds .. | .. | .. | .. | 2.—Main Canal and Branches | 10,48,180 | 43,737 | 10,91,917 |
| Total .. | 1,15,52,979 | 1,48,202 | 1,17,01,181 | 3.—Distributaries .. | 5,90,324 | 32,701 | 6,23,025 |
| Share of Land Revenue collected in the Civil Department. | 22,21,767 | 86,263 | 23,08,030 | Total I. B. .. | 20,24,599 | 88,814 | 21,13,413 |
| Interest on sale-proceeds on waste lands benefited. | 4,55,143 | 35,558 | 4,90,701 | (3).—COMPENSATION .. | 913 | 682 | 1,595 |
| Total .. | 20,70,910 | 1,21,821 | 21,92,731 | (4).—ESTABLISHMENT. | | | |
| | | | | 5. General Establishment including Direction and Account. | 11,15,763 | 60,953 | 11,76,716 |
| | | | | 6. Revenue Establishment .. | 7,54,900 | 20,813 | 7,75,713 |
| | | | | Total .. | 18,70,663 | 81,766 | 19,52,429 |
| | | | | (5).—TOOLS AND PLANT | | | |
| | | | | 1.—Scientific Instruments and Drawing Materials. | | | |
| | | | | 2.—Plant and Machinery .. | | | |
| | | | | 3.—Tools .. | | | |
| | | | | 4.—Navigation Plant .. | | | |
| | | | | 5.—Camp Equipment .. | 61,404 | 1,130 | 62,534 |
| | | | | 6.—Live Stock .. | | | |
| | | | | 7.—Office Furniture .. | | | |
| | | | | 8.—Repairs and Carriage .. | | | |
| | | | | 12.—Miscellaneous .. | | | |
| | | | | Total .. | 61,404 | 1,130 | 62,534 |
| | | | | Deduct RECOVERIES ON REVENUE ACCOUNT. | | | |
| | | | | 1.—REFUNDS OF REVENUE. | 2,410 | .. | 2,410 |
| | | | | Total .. | 42,80,909 | 1,01,053 | 43,81,962 |
| | | | | Indirect Charges debitabie to Revenue Account as per Account No. 5. | 2,02,180 | 12,683 | 2,14,863 |
| | | | | Total Charges .. | 45,52,089 | 2,03,736 | 47,55,825 |
| | | | | Balance, Not Revenue .. | 90,77,800 | 66,287 | 97,44,087 |
| | | | | GRAND TOTAL .. | 1,42,29,880 | 2,70,023 | 1,44,99,903 |

(a) Includes Rs. 4,914 on account of fees for collection of Revenue.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sidhnai Canal Project.

No. 4—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|--|-----------|--|-----------|
| Rs. | Rs. | Rs. | Rs. |
| Total Interest charges to end of 1920-21 | 15,04,707 | Net Revenue realized to end of 1920-21 | 96,77,800 |
| Total outlay up to 31st March 1917 .. 12,05,265 | | " " " during 1921-22 | 66,287 |
| Total outlay up to 31st March 1921 .. —2,282 | | | |
| Add half outlay during 1921-22 .. —1,331 | | | |
| Total .. —3,673 | | | |
| Interest at 3.3252 % on Rs. 12,05,265 .. | 43,070 | | |
| Interest at 6.1038 on Rs. 2,399 .. | —224 | | |
| Total .. | 15,47,553 | | |
| Balance Revenue after defraying interest charges | 81,96,534 | | |
| Total .. | 97,44,087 | Total .. | 97,44,087 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1920-21.

| PARTICULARS. | Previous. | 1920-21. | Total. |
|---|-----------------|---------------|-----------------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue | 3,328 | .. | 3,328 |
| Leave and Pension Allowances | 36,047 | 54 | 37,001 |
| Audit and Accounts Establishment | .. | 13 | 13 |
| Total .. | 40,275 | 67 | 40,342 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue | 285 | .. | 285 |
| Leave and Pension Allowances | 2,61,895 | 11,690 | 2,73,494 |
| Audit and Accounts | .. | 1,084 | 1,084 |
| Total .. | 2,62,180 | 12,053 | 2,74,863 |
| GRAND TOTAL .. | 3,02,455 | 12,750 | 3,15,205 |

No. 6—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. |
|--|--|---|------------------|--------------------|--------------------------------|------------------------------|--|-----------------------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| DIRECT CHARGES— | | | | | | | | |
| Works | 7,01,204 | 2,46,344 | 9,47,548 | 714 | 3,952 | 3,238 | 9,48,262 | Secy. I. B. Rs. 01189 |
| Establishment | 2,04,803 | 69,161 | 2,64,964 | .. | 857 | 857 | 2,64,964 | No. 10-10-19 |
| Tools and Plant | 22,253 | 15,811 | 38,064 | .. | 59 | 59 | 38,064 | W. I. 3249 |
| Suspense Balance | .. | .. | .. | 39,135 | .. | —39,135 | 39,135 | 16-12-20 4,868 |
| Total .. | 9,28,260 | 3,22,316 | 12,50,576 | 39,849 | 4,868 | —34,981 | 12,90,425 | |
| Less Receipts on Capital Account | 224 | .. | 224 | .. | .. | .. | 224 | |
| NET TOTAL .. | 9,28,036 | 3,22,316 | 12,50,352 | 39,849 | 4,868 | —34,981 | 12,90,201 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue. | 2,994 | 334 | 3,328 | .. | .. | .. | 3,328 | |
| Leave and Pension Allowances | 28,576 | 84,025 | 37,001 | .. | .. | .. | 37,001 | |
| Audit and Accounts Establishment. | .. | 13 | 13 | .. | .. | .. | 13 | |
| Total .. | 31,570 | 8,772 | 40,342 | .. | .. | .. | 40,342 | |
| GRAND TOTAL .. | 9,59,606 | 3,31,088 | 12,90,694 | 39,849 | 4,868 | —34,981 | 13,30,543 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | | | | DIRECT CHARGES. | | | Cost of construction as now estimated. | Expenditure against closed Estimate. |
|--|--|--|--|-----------------|----------|-----------|--|--------------------------------------|
| | | | | Imputed. | | | | |
| | | | | Precurrent. | 1.21.22. | Total. | | |
| | | | | Rs. | P. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | | | | |
| 1.—HEAD WORKS— | | | | | | | | |
| A.—Preliminary Expenses | | | | 12,619 | .. | 12,619 | | |
| B.—Land | | | | 31,772 | .. | 31,772 | | |
| C.—Works | | | | 32,67,502 | —22,670 | 32,67,502 | | |
| E.—Buildings | | | | 1,71,519 | —23 | 1,71,519 | | |
| O.—Miscellaneous | | | | 10,273 | .. | 10,273 | | |
| P.—Maintenance | | | | 28,920 | .. | 28,920 | | |
| TOTAL | | | | 35,59,770 | —22,673 | 35,31,105 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | | | | |
| A.—Preliminary Expenses | | | | 93,760 | .. | 93,760 | | |
| B.—Land | | | | 2,40,781 | .. | 2,40,781 | | |
| D.—Regulators | | | | 5,51,273 | 7,991 | 5,59,264 | | |
| E.—Falls and Weirs | | | | 2,25,871 | 7,228 | 2,43,102 | | |
| F.(1)—Other Cross Drainage Works | | | | 1,20,238 | .. | 1,20,238 | | |
| G.—Bridges | | | | 6,93,771 | 13,071 | 7,06,845 | | |
| H.—Creepers | | | | 4,73,510 | .. | 4,78,540 | | |
| J.—Mills | | | | 1,11,163 | .. | 1,11,163 | | |
| K.—Buildings | | | | 10,77,819 | 3,681 | 10,77,819 | | |
| L.—Earthwork | | | | 23,81,012 | 1,24,022 | 25,06,834 | | |
| M.—Plantations | | | | 86,179 | .. | 86,179 | | |
| O.—Miscellaneous | | | | 46,457 | .. | 46,457 | | |
| P.—Maintenance | | | | 32,373 | .. | 32,373 | | |
| Total | | | | 61,55,122 | 1,56,936 | 63,12,375 | | |
| 3.—DISTRIBUTARIES— | | | | | | | | |
| A.—Preliminary Expenses | | | | 61,101 | .. | 61,101 | | |
| B.—Land | | | | 1,51,015 | 10,923 | 1,61,938 | | |
| C.—Works | | | | 16,49,727 | 1,01,508 | 17,16,325 | | |
| L.—Earthwork | | | | 11,53,035 | 1,32,835 | 15,85,020 | | |
| O.—Miscellaneous | | | | 5,18,777 | —106 | 5,18,371 | | |
| P.—Maintenance | | | | 4,693 | .. | 4,693 | | |
| Total | | | | 31,23,346 | 2,44,950 | 33,77,315 | | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Expenditure against closed Estimates. | Cost of construction as now estimated. |
|---|-----------------|----------|-------------|---------------------------------------|--|
| | Imperial | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| Losses on stock | .. | 51 | 51 | | |
| Watercourses | .. | —21,249 | —21,249 | | |
| I.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | 21,356 | .. | 21,356 | | |
| B.—Land | 13,638 | .. | 13,638 | | |
| C.—Works | 2,884 | .. | 2,884 | | |
| L.—Earthwork | 62,353 | .. | 62,353 | | |
| O.—Miscellaneous | 1,759 | .. | 1,759 | | |
| TOTAL | 91,990 | .. | 91,990 | | |
| TOTAL I.—WORKS | 1,36,33,618 | 3,69,572 | 1,39,94,590 | 1,27,76,738 | 1,48,51,417 |
| II.—ESTABLISHMENT. | | | | | |
| 5.—DIRECTION AND ACCOUNTS | | | | | |
| 6.—EXECUTIVE | (a) 25,22,554 | 1,31,277 | 26,53,831 | | |
| 7.—MEDICAL | | | | | |
| 8.—SPECIAL SURVEY | | | | | |
| TOTAL | 25,22,554 | 1,31,277 | 26,53,831 | 26,53,831 | 31,04,698 |
| III.—TOOLS AND PLANT. | | | | | |
| 2.—NAVIGATION PLANT | | | | | |
| 12.—MISCELLANEOUS | 3,89,232 | 21,159 | 4,10,391 | | |
| 13.—REPAIRS AND CARRIAGE | | | | | |
| TOTAL | 3,89,232 | 21,159 | 4,10,391 | 4,10,391 | 4,41,420 |
| V.—SUSPENSE ACCOUNT. | | | | | |
| 14.—STOCK | 4,16,182 | 63,529 | 4,78,711 | | |
| 15.—STOCK PURCHASES | —9,249 | 60 | —9,189 | | |
| 16.—MISCELLANEOUS ADVANCES | 4,530 | —4,283 | 256 | | |
| 18.—LONDON STORES | .. | 14,368 | 14,368 | | |
| WORKSHOP SUSPENSE | .. | —1,340 | —1,340 | | |
| TOTAL | 4,11,472 | 72,331 | 4,83,806 | | |
| GRAND TOTAL | 1,09,59,576 | 5,85,742 | 1,73,42,618 | 1,58,40,960 | 1,83,97,535 |
| V.—LESS RECEIPTS ON CAPITAL ACCOUNT | 62,609 | .. | 62,609 | 62,609 | 62,609 |
| Net Total | 1,08,91,267 | 5,85,742 | 1,71,95,019 | 1,57,78,351 | 1,83,31,926 |
| APPOINTMENT. | | | | | |
| 43.—IRRIGATION WORKS | 1,68,94,267 | 5,85,742 | 1,74,80,009 | | |

OFFICE OF ACCOUNTANT-GENERAL,
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Jhelum Canal Project

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|---|-------------|---|-------------|
| Rs. | | Rs. | |
| Total Interest charge to end of 1920-21 .. | 1,06,27,265 | Net Revenue realized to end of 1920-21 .. | 3,99,15,131 |
| Do. for the year 1921-22 .. | | " " " during 1921-22 .. | 29,94,221 |
| Total outlay to end of 31st March 1917 .. | 1,55,43,447 | | |
| Total outlay from 1st April, 1917 to 31st March 1921 .. | 13,60,820 | | |
| Add $\frac{1}{2}$ outlay during 1920-21 .. | 2,02,871 | | |
| Interest at 3'3252% on Rs. 1,55,43,447 .. | 5,16,331 | | |
| Do. at 6'1038 % on Rs. 16,43,691 .. | 1,00,328 | | |
| Total .. | 1,12,41,464 | | |
| Balance Revenue after defraying interest charges .. | 3,67,61,593 | | |
| Total .. | 4,29,09,353 | Total .. | 4,29,09,353 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| Particulars. | Previous. | 1921-22. | Total. |
|--|------------------|-----------------|------------------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of statement of Land Revenue .. | 53,050 | | 53,050 |
| Leave and Pension Allowances .. | 3,53,159 | 18,884 | 3,72,043 |
| Audit and Accounts Charges .. | | 3,610 | 3,610 |
| Total .. | 4,39,209 | 22,494 | 4,56,703 |
| REVENUE— | | | |
| Capitalization of statement of Land Revenue .. | 900 | | 900 |
| Leave and Pension Allowances .. | 10,16,314 | 1,11,366 | 11,27,680 |
| Audit and Accounts Charges .. | | 5,467 | 5,467 |
| Total .. | 10,17,214 | 1,16,833 | 11,34,047 |
| GRAND TOTAL .. | 14,53,423 | 1,39,327 | 15,92,750 |

IRRIGATION BRANCH.

OFFICE OF ACCOUNTS
ADMINISTRATIVE ACCOUNTS

Lower Jhelum

No. 6.—STATEMENT COMPARING CHARGES

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | |
|--|--|---|-------------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. |
| | Rs. | Rs. | Rs. |
| DIRECT CHARGES. | | | |
| Works | 1,26,74,403 | 1,02,245 | 1,27,76,738 |
| Establishment | 21,00,858 | 4,62,073 | 26,63,931 |
| Tools and Plant | 3,62,956 | 47,435 | 4,10,391 |
| Suspense Balance | .. | .. | .. |
| Total .. | 1,52,28,307 | 6,12,653 | 1,58,40,960 |
| Less Receipts on Capital Account | 62, 609 | .. | 62,609 |
| Net Total .. | 1,51,65,698 | 6,12,653 | 1,57,78,351 |
| Carried over .. | 1,51,65,698 | 6,12,653 | 1,57,78,351 |

(a) Completion Schedule sanctioned in Secretary of State's despatch No. P. W.-S, dated the 5th February 1920, for a total amount

IRRIGATION BRANCH.

OFFICE OF ACCOUNTS
ADMINISTRATIVE ACCOUNTS

Lower Jhelum

No. 6.—STATEMENT COMPARING CHARGES TO

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | |
|---|---|--|-------------|
| | Expendi-
ture against
Construc-
tion.
Estimate. | Expendi-
ture against
open canal
sanctions. | Total. |
| | Rs. | Rs. | Rs. |
| Brought forward .. | 1,51,65,699 | 6,12,053 | 1,57,78,351 |
| INDIRECT CHARGES. | | | |
| Capitalized abatement of Land Revenue | 83,000 | 50 | 83,050 |
| Leave and Pension Allowance. | 3,06,721 | 65,322 | 3,72,043 |
| Audit and Accounts Charges | .. | 3,610 | 3,610 |
| Total .. | 3,89,721 | 65,982 | 4,55,703 |
| GRAND TOTAL .. | 1,55,55,419 | 6,81,635 | 1,62,37,054 |

TANT-GENERAL.

PUNJAB PROVINCE.

FOR THE YEAR 1921-22.

Canal Project.

DATE WITH SANCTIONED ESTIMATE.

| CURRENT CHARGES. | | | Total charges to date against old and current sanctions. | REMARKS. | |
|------------------|--------------------------------|------------------------------|--|--|--------------|
| Charges to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | | |
| Rs. | Rs. | Rs. | Rs. | | Rs. |
| 17,01,658 | 25,56,575 | 8,54,917 | 1,74,80,009 | Brought forward | .. 16,14,659 |
| | | | | Secretary's No. No. 2769 W. L., dated 21st November 1919 | .. 4,563 |
| | | | | " " 2771 " " " " | .. 1,231 |
| | | | | " " 2813 " " 24th November 1919 | .. 30,732 |
| | | | | " " 2815 " " " " | .. 2,441 |
| | | | | " " 2817 " " " " | .. 6,470 |
| | | | | " " 2818 " " " " | .. 10,109 |
| | | | | " " 2821 " " " " | .. 5,327 |
| | | | | " " 2823 " " " " | .. 1,379 |
| | | | | " " 2825 " " " " | .. 12,204 |
| | | | | " " 2827 " " " " | .. 6,161 |
| | | | | " " 2829 " " " " | .. 5,330 |
| | | | | " " 2831 " " " " | .. 2,278 |
| | | | | " " 2833 " " " " | .. 1,870 |
| | | | | " " 2835 " " " " | .. 3,285 |
| | | | | " " 2837 " " " " | .. 31,870 |
| | | | | " " 2839 " " " " | .. 2,915 |
| | | | | " " 2841 " " " " | .. 20,548 |
| | | | | " " 2843 " " " " | .. 5,957 |
| | | | | " " 2870 " " 26th November 1919 | .. 21,874 |
| | | | 83,050 | Govt. of India " 972, dated 2nd January 1920 | .. 2,037 |
| | | | | " " 394, dated 20th December 1919 | .. 49,075 |
| | | | | Secretary's No. " 621 W. L., 19th July 1918 | .. 8,070 |
| | | | | " " 1472 " " 13th April 1920 | .. 12,108 |
| | | | | " " 9543 " " 11th June 1920 | .. 78,763 |
| | | | | " " 393 " " 21st June 1920 | .. 1,212 |
| | | | | " " 9352 " " 16th June 1920 | .. 28,170 |
| | | | | " " 0631 " " 17th July 1920 | .. 3,454 |
| | | | | " " 0849 " " 7th August 1920 | .. 23,408 |
| | | | | " " 01026 " " 20th August 1920 | .. 9,973 |
| | | | | " " 1040 " " 10th September 1920 | .. 9,502 |
| | | | 3,72,043 | Govt. of India " 370 " 2nd September 1920 | .. 3,51,660 |
| | | | | Secretary's " 01527 " 12th October 1920 | .. 5,515 |
| | | | | " " 1523 " " " " | .. 31,033 |
| | | | | " " 01525 " " " " | .. 6,335 |
| | | | | " " 0243 " " 27th October 1920 | .. 6,326 |
| | | | | " " 2437 " " " " | .. 24,844 |
| | | | | " " 2441 " " " " | .. 4,178 |
| | | | | " " 2443 " " " " | .. 5,042 |
| | | | | " " 2860 " " 22nd November 1920 | .. 27,941 |
| | | | | " " 304 " " 20th December 1919 | .. 7,4387 |
| | | | 3,610 | GRAND TOTAL | .. 25,56,575 |
| | | | | | |
| | | | 4,58,703 | | |
| | | | | | |
| 17,01,058 | 25,56,575 | 8,54,917 | 1,79,38,712 | | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Indus Inundation Canals Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March, 1894.) | Expenditure against closed Estimate. |
|---|-----------------|----------|-----------|---|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | |
| 2.—MAIN CANAL AND BRANCHES. | | | | | |
| A.—Preliminary Expenses | 9,321 | | 9,321 | | |
| B.—Land | 53,193 | | 53,193 | | |
| D.—Regulators | 77,205 | | 77,205 | | |
| E.—Falls and Weirs | 34,956 | | 34,956 | | |
| F.—River and Hill Torrent Works | 402 | | 402 | | |
| G.—Bridges | 40,071 | | 40,071 | | |
| H.—Escapes | 14,031 | | 14,031 | | |
| K.—Buildings | 1,49,083 | | 1,49,083 | | |
| L.—Earthwork | 13,52,682 | | 13,52,682 | | |
| O.—Miscellaneous | 24,588 | | 24,588 | | |
| Total | 17,62,432 | | 17,62,432 | | |
| 3.—DISTRIBUTARIES. | | | | | |
| A.—Preliminary Expenses. | 3,087 | | 3,087 | | |
| B.—Land | 38,157 | | 38,157 | | |
| C.—Works | 7,097 | | 7,097 | | |
| L.—Earthwork | 1,88,142 | | 1,88,142 | | |
| O.—Miscellaneous | 8,536 | | 8,536 | | |
| Total | 3,14,909 | | 3,14,909 | | |

OFFICE OF ACCOUNTANT-GENERAL

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1920-21.

Indus Inundation Canals Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1901). | Expenditure against closed Estimate. |
|---|-----------------|----------|-----------|--|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| K.—Buildings | 1,613 | .. | 1,613 | | |
| L.—Earthwork | 3,43,078 | .. | 3,43,078 | | |
| Total | 3,44,691 | .. | 3,44,691 | | |
| TOTAL I.—WORKS | 21,22,032 | .. | 21,22,032 | 21,23,472 | 24,22,032 |
| II.—ESTABLISHMENT. | | | | | |
| 5.—DIRECTION AND ACCOUNT (a) | 4,58,452 | .. | 4,58,452 | | |
| 6.—EXECUTIVE | | .. | .. | | |
| 7.—MEDICAL | | 507 | 507 | | |
| TOTAL | 4,59,019 | .. | 4,59,019 | 4,59,328 | 4,59,019 |
| III.—TOOLS AND PLANT. | | | | | |
| 12.—MISCELLANEOUS | 25,080 | .. | 25,080 | | |
| 13.—REPAIRS AND CARRIAGE | | .. | .. | | |
| TOTAL | 25,080 | .. | 25,080 | 25,102 | 25,080 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14.—STOCK | 52,610 | —1,310 | 51,300 | | |
| 15.—STOCK PURCHASES | 1 | —181 | —183 | | |
| 16.—MISCELLANEOUS ADVANCES | 193 | 135 | 336 | | |
| 18.—LONDON STORES | .. | .. | .. | | |
| TOTAL | 52,809 | —1,050 | 51,759 | | |
| GRAND TOTAL | 29,59,910 | —1,050 | 29,57,281 | 29,07,902 | 29,06,131 |
| V.—LESS RECEIPTS ON CAPITAL ACCOUNT | —63,881 | .. | 63,881 | 63,881 | 63,881 |
| NET TOTAL | 29,05,059 | —1,050 | 29,03,403 | 29,41,021 | 28,42,250 |
| VI.—APPORTIONMENT. | | | | | |
| 19.—IRRIGATION WORKS | 21,72,511 | —7,056 | 21,70,888 | | |
| 23.—M. W. NAVIGATION, IMPERIAL | 7,22,513 | .. | 7,22,513 | | |

(a) Excludes share of Account Establishment from 1912-13 to 1917-18.

No. 3 —REVENUE ACCOUNT FOR AND TO END OF 1921-22.

(a) Excludes share of Accounts Establishment from 1970 to 1972, 1975 to 1977, 1979 to 1980, 1982 to 1983, 1985 to 1986, 1988 to 1989, 1991 to 1992, 1994 to 1995, 1997 to 1998, 2000 to 2001, 2003 to 2004, 2006 to 2007, 2009 to 2010, 2012 to 2013, 2015 to 2016, 2018 to 2019, 2021 to 2022, 2024 to 2025, 2027 to 2028, 2030 to 2031, 2033 to 2034, 2036 to 2037, 2039 to 2040, 2042 to 2043, 2045 to 2046, 2048 to 2049, 2051 to 2052, 2054 to 2055, 2057 to 2058, 2060 to 2061, 2063 to 2064, 2066 to 2067, 2069 to 2070, 2072 to 2073, 2075 to 2076, 2078 to 2079, 2081 to 2082, 2084 to 2085, 2087 to 2088, 2090 to 2091, 2093 to 2094, 2096 to 2097, 2099 to 2100, 2102 to 2103, 2105 to 2106, 2108 to 2109, 2111 to 2112, 2114 to 2115, 2117 to 2118, 2120 to 2121, 2123 to 2124, 2126 to 2127, 2129 to 2130, 2132 to 2133, 2135 to 2136, 2138 to 2139, 2141 to 2142, 2144 to 2145, 2147 to 2148, 2150 to 2151, 2153 to 2154, 2156 to 2157, 2159 to 2160, 2162 to 2163, 2165 to 2166, 2168 to 2169, 2171 to 2172, 2174 to 2175, 2177 to 2178, 2180 to 2181, 2183 to 2184, 2186 to 2187, 2189 to 2190, 2192 to 2193, 2195 to 2196, 2198 to 2199, 2201 to 2202, 2204 to 2205, 2207 to 2208, 2210 to 2211, 2213 to 2214, 2216 to 2217, 2219 to 2220, 2222 to 2223, 2225 to 2226, 2228 to 2229, 2231 to 2232, 2234 to 2235, 2237 to 2238, 2240 to 2241, 2243 to 2244, 2246 to 2247, 2249 to 2250, 2252 to 2253, 2255 to 2256, 2258 to 2259, 2261 to 2262, 2264 to 2265, 2267 to 2268, 2270 to 2271, 2273 to 2274, 2276 to 2277, 2279 to 2280, 2282 to 2283, 2285 to 2286, 2288 to 2289, 2291 to 2292, 2294 to 2295, 2297 to 2298, 2299 to 2300, 2302 to 2303, 2305 to 2306, 2308 to 2309, 2311 to 2312, 2314 to 2315, 2317 to 2318, 2320 to 2321, 2323 to 2324, 2326 to 2327, 2329 to 2330, 2332 to 2333, 2335 to 2336, 2338 to 2339, 2341 to 2342, 2344 to 2345, 2347 to 2348, 2350 to 2351, 2353 to 2354, 2356 to 2357, 2359 to 2360, 2362 to 2363, 2365 to 2366, 2368 to 2369, 2371 to 2372, 2374 to 2375, 2377 to 2378, 2380 to 2381, 2383 to 2384, 2386 to 2387, 2389 to 2390, 2392 to 2393, 2395 to 2396, 2398 to 2399, 2401 to 2402, 2404 to 2405, 2407 to 2408, 2410 to 2411, 2413 to 2414, 2416 to 2417, 2419 to 2420, 2422 to 2423, 2425 to 2426, 2428 to 2429, 2431 to 2432, 2434 to 2435, 2437 to 2438, 2440 to 2441, 2443 to 2444, 2446 to 2447, 2449 to 2450, 2452 to 2453, 2455 to 2456, 2458 to 2459, 2461 to 2462, 2464 to 2465, 2467 to 2468, 2470 to 2471, 2473 to 2474, 2476 to 2477, 2479 to 2480, 2482 to 2483, 2485 to 2486, 2488 to 2489, 2491 to 2492, 2494 to 2495, 2497 to 2498, 2499 to 2500, 2502 to 2503, 2505 to 2506, 2508 to 2509, 2511 to 2512, 2514 to 2515, 2517 to 2518, 2520 to 2521, 2523 to 2524, 2526 to 2527, 2529 to 2530, 2532 to 2533, 2535 to 2536, 2538 to 2539, 2541 to 2542, 2544 to 2545, 2547 to 2548, 2550 to 2551, 2553 to 2554, 2556 to 2557, 2559 to 2560, 2562 to 2563, 2565 to 2566, 2568 to 2569, 2571 to 2572, 2574 to 2575, 2577 to 2578, 2580 to 2581, 2583 to 2584, 2586 to 2587, 2589 to 2590, 2592 to 2593, 2595 to 2596, 2598 to 2599, 2601 to 2602, 2604 to 2605, 2607 to 2608, 2610 to 2611, 2613 to 2614, 2616 to 2617, 2619 to 2620, 2622 to 2623, 2625 to 2626, 2628 to 2629, 2631 to 2632, 2634 to 2635, 2637 to 2638, 2640 to 2641, 2643 to 2644, 2646 to 2647, 2649 to 2650, 2652 to 2653, 2655 to 2656, 2658 to 2659, 2661 to 2662, 2664 to 2665, 2667 to 2668, 2670 to 2671, 2673 to 2674, 2676 to 2677, 2679 to 2680, 2682 to 2683, 2685 to 2686, 2688 to 2689, 2691 to 2692, 2694 to 2695, 2697 to 2698, 2699 to 2700, 2702 to 2703, 2705 to 2706, 2708 to 2709, 2711 to 2712, 2714 to 2715, 2717 to 2718, 2720 to 2721, 2723 to 2724, 2726 to 2727, 2729 to 2730, 2732 to 2733, 2735 to 2736, 2738 to 2739, 2741 to 2742, 2744 to 2745, 2747 to 2748, 2750 to 2751, 2753 to 2754, 2756 to 2757, 2759 to 2760, 2762 to 2763, 2765 to 2766, 2768 to 2769, 2771 to 2772, 2774 to 2775, 2777 to 2778, 2780 to 2781, 2783 to 2784, 2786 to 2787, 2789 to 2790, 2792 to 2793, 2795 to 2796, 2798 to 2799, 2801 to 2802, 2804 to 2805, 2807 to 2808, 2810 to 2811, 2813 to 2814, 2816 to 2817, 2819 to 2820, 2822 to 2823, 2825 to 2826, 2828 to 2829, 2831 to 2832, 2834 to 2835, 2837 to 2838, 2840 to 2841, 2843 to 2844, 2846 to 2847, 2849 to 2850, 2852 to 2853, 2855 to 2856, 2858 to 2859, 2861 to 2862, 2864 to 2865, 2867 to 2868, 2870 to 2871, 2873 to 2874, 2876 to 2877, 2879 to 2880, 2882 to 2883, 2885 to 2886, 2888 to 2889, 2891 to 2892, 2894 to 2895, 2897 to 2898, 2899 to 2900, 2902 to 2903, 2905 to 2906, 2908 to 2909, 2911 to 2912, 2914 to 2915, 2917 to 2918, 2920 to 2921, 2923 to 2924, 2926 to 2927, 2929 to 2930, 2932 to 2933, 2935 to 2936, 2938 to 2939, 2941 to 2942, 2944 to 2945, 2947 to 2948, 2950 to 2951, 2953 to 2954, 2956 to 2957, 2959 to 2960, 2962 to 2963, 2965 to 2966, 2968 to 2969, 2971 to 2972, 2974 to 2975, 2977 to 2978, 2980 to 2981, 2983 to 2984, 2986 to 2987, 2989 to

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Indus Inundation Canals Project

No. 4.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|--|-----------|---|-----------|
| | Rs. | | Rs. |
| Total Interest charges to end of 1920-21 .. | 24,32,045 | Net Revenue realized to end of 1920-21 .. | 20,10,400 |
| Total outlay to end of 31st March 1917 .. | 20,01,976 | " " " during 1921-22 .. | -1,53,175 |
| Total outlay from 1st April 1917 to 31st March 1921 .. | -6,917 | Balance net Interest charges .. | 6,71,742 |
| Add half outlay during 1919-20 .. | -828 | | |
| | -7,745 | | |
| Interest at 3-3252 on Rs. 20,01,976 .. | 96,406 | | |
| Interest at 6-1038 % on Rs. 7,745 .. | -474 | | |
| Total .. | 25,28,967 | Total .. | 25,28,967 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS | Previous. | 1921-22. | Total. |
|--|-----------|----------|----------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue .. | 8,657 | .. | 8,657 |
| Leave and Pension Allowances .. | 71,727 | .. | 71,727 |
| Total .. | 80,384 | .. | 80,384 |
| REVENUE— | | | |
| Capitalization of abatement of Land Revenue .. | 26,033 | 101 | 27,034 |
| Leave and Pension Allowances .. | 7,21,262 | 44,605 | 7,65,867 |
| Audit and Accounts Establishment .. | .. | 4,163 | 4,163 |
| Total .. | 7,51,215 | 48,769 | 7,99,984 |
| GRAND TOTAL .. | 8,31,599 | 48,769 | 8,80,368 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current Sanctions. | REMARKS. |
|--|--|--|-----------|--------------------|--------------------------------|------------------------------|--|-------------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanction. | Total. | Charged to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| DIRECT CHARGES— | | | | | | | | |
| Works .. | 6,63,618 | 17,58,384 | 24,22,032 | .. | 1,440 | 1,440 | 24,22,032 | W. I. 4,061 |
| Establishment .. | 87,201 | 3,71,816 | 4,59,010 | .. | 309 | 309 | 4,59,010 | —1771 |
| Tools and Plant .. | 670 | 24,410 | 25,080 | .. | 22 | +22 | 25,080 | 16-12-21 |
| Suspense Balance .. | .. | .. | .. | 51,153 | .. | -61,153 | +51,153 | |
| Total .. | 7,51,522 | 21,51,600 | 29,03,131 | 51,153 | 1,771 | -49,382 | 29,57,264 | |
| Less Receipts on Capital Account. | 63,652 | 29 | 63,681 | .. | .. | .. | 63,681 | |
| NET TOTAL .. | 6,87,870 | 21,54,580 | 28,42,250 | 51,153 | 1,771 | -49,382 | 28,93,403 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue .. | 57 | 8,600 | 8,657 | .. | .. | .. | 8,657 | |
| Leave and Pension Allowances .. | 19,672 | 52,055 | 71,727 | .. | .. | .. | 71,727 | |
| Total .. | 10,729 | 60,655 | 80,384 | .. | .. | .. | 80,384 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE;

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now (estimated Construction Estimate closed on 31st March 1917). | Expenditure against closed Estimates. |
|---|-----------------|----------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| I—WORKS. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—HEAD WORKS— | | | | | |
| A.—Preliminary Expenses | 8,284 | .. | 8,284 | | |
| B.—Land | 94,615 | .. | 94,615 | | |
| C.—Works | 65,17,212 | 9,009 | 65,26,221 | | |
| K.—Buildings | 1,91,060 | .. | 1,91,060 | | |
| O.—Miscellaneous | 75,163 | .. | 75,163 | | |
| P.—Maintenance | 1,35,343 | .. | 1,35,343 | | |
| Q.—Losses of Stock | 7,317 | .. | 7,317 | | |
| TOTAL | 70,28,934 | 9,009 | 70,37,993 | | |
| II.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 77,939 | .. | 77,939 | | |
| B.—Land | 9,71,850 | —68 | 9,71,782 | | |
| D.—Regulators | 7,09,004 | .. | 7,09,004 | | |
| E.—Falls and Weirs | 9,50,027 | .. | 9,50,027 | | |
| F. (1)—Other Cross Drainage Works | 22,74,588 | .. | 22,74,588 | | |
| G.—Bridges | 15,97,474 | 116 | 15,97,589 | | |
| K.—Buildings | 9,63,400 | 1,24,919 | 10,88,409 | | |
| L.—Earthwork | 69,55,003 | .. | 69,55,003 | | |
| M.—Plantation | 68,906 | 1,738 | 70,644 | | |
| O.—Miscellaneous | 80,086 | —3,000 | 86,086 | | |
| P.—Maintenance | 3,20,677 | .. | 3,20,677 | | |
| Q.—Losses of Stock | 12,374 | .. | 12,374 | | |
| TOTAL | 1,49,90,418 | 1,23,704 | 1,51,14,122 | | |
| III.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 1,43,769 | 180 | 1,43,949 | | |
| B.—Land | 6,61,202 | 42,675 | 7,03,877 | | |
| C.—Works | 16,50,392 | 32,350 | 16,91,742 | | |
| L.—Earthwork | 19,42,871 | 28,787 | 19,71,658 | | |
| O.—Miscellaneous | 17,045 | 2,787 | 19,832 | | |
| P.—Maintenance | 14,308 | .. | 14,308 | | |
| TOTAL | 44,38,587 | 1,06,779 | 45,45,366 | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1917). | Expenditure against closed Estimates. |
|--|-----------------|----------|-------------|--|---------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| IV.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary Expenses | 13,010 | 562 | 14,472 | | |
| B.—Land | 1,04,091 | .. | 1,04,091 | | |
| C.—Works | 40,800 | .. | 40,800 | | |
| L.—Earthwork | 10,40,600 | .. | 10,40,600 | | |
| O.—Miscellaneous | 17,382 | .. | 17,382 | | |
| V.—WATER COURSES— | | | | | |
| O.—Miscellaneous | .. | —61,804 | —61,804 | | |
| TOTAL | 12,23,733 | 502 | 12,24,295 | | |
| TOTAL I.—WORKS | 2,76,81,722 | 1,78,100 | 2,78,50,012 | 2,61,80,728 | 2,76,03,117 |
| II.—ESTABLISHMENT. | | | | | |
| Direction and Accounts | (a) | | | | |
| Executive | 44,10,991 | 47,729 | 44,70,162 | | |
| Medical " | | 2432 | | | |
| Special Survey | 82,673 | .. | 82,673 | | |
| Special fixed Survey | 110 | .. | 110 | | |
| Total | 45,02,674 | 50,161 | 45,52,835 | 47,01,336 | 45,52,326 |
| IV.—TOOLS AND PLANT. | | | | | |
| 1. Scientific Instruments and drawing material | | | | | |
| 2. Plant and Machinery | | | | | |
| 3. Tools | | | | | |
| 4. Navigation Plant' | | | | | |
| 5. Camp equipage | 21,86,402 | 1,800 | 21,88,208 | | |
| 6. Live Stock | | | | | |
| 7. Office Furniture | | | | | |
| 8. Repairs and Carriage | | | | | |
| 11. Railway Plant and Rolling Stock | | | | | |
| 21. Miscellaneous | | | | | |
| Total | 21,86,402 | 1,800 | 21,88,208 | 21,98,506 | 21,88,208 |
| V.—SUSPENSE ACCOUNT. | | | | | |
| I.—Purchases | —2,171 | —6,003 | —8,205 | | |
| II.—Stock' | 5,57,936 | 10,100 | 5,68,102 | | |
| III.—Miscellaneous Advances | 3,500 | 13,000 | 17,550 | | |
| IV.—London Stores | 2,930 | —2,835 | 5,731 | | |
| Total | 6,62,257 | 20,868 | 6,83,125 | | |
| GRAND TOTAL | 3,60,73,055 | 2,51,025 | 3,62,84,080 | 3,30,50,570 | 34,24,416 |
| LESS RECEIPTS ON CAPITAL ACCOUNT | 6,47,072 | 3,100 | 6,60,172 | 6,60,172 | 6,60,172 |
| Net Total | 3,43,75,982 | 2,47,925 | 3,40,23,908 | 3,44,29,398 | 3,35,88,988 |
| APPORTIONMENT | | | | | |
| 55 (a)—Irrigation Works | 3,42,08,112 | 2,47,025 | 3,45,16,037 | | |
| 16. M. and Navigation | 1,07,871 | .. | 1,07,871 | | |

(a) Share of Accounts Establishment excluded from 1917-18 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Chenab Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|---|-------------|-----------|-------------|---|-------------|-----------|-------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 1,36,00,840 | 30,30,432 | 1,66,31,272 | (1)—EXTENSIONS AND IMPROVEMENTS. | | | |
| | | | | 1.—Head Works .. | 92,317 | 6,892 | 99,209 |
| Sales of water .. | 4,882 | 799 | 5,681 | 2.—Main Canal and Branches .. | 3,27,947 | 51,893 | 3,79,840 |
| | | | | 3.—Distributaries .. | 76,894 | 75,305 | 1,52,199 |
| Water supply of towns .. | 2,017 | .. | 2,017 | 4.—Drainage and Protective Works .. | 62,601 | 30,853 | 93,454 |
| | | | | Total .. | 5,69,819 | 1,64,073 | 7,24,792 |
| Plantation .. | 4,307 | 2,188 | 6,495 | (2)—MAINTENANCE AND REPAIRS. | | | |
| | | | | 1.—Head Works .. | 4,42,774 | 78,239 | 5,21,113 |
| Other Canal Produce .. | 2,103 | 15 | 2,118 | 2.—Main Canal and Branches .. | 16,61,895 | 3,16,592 | 19,78,487 |
| | | | | 3.—Distributaries .. | 15,65,422 | 3,39,722 | 19,05,144 |
| | | | | 4.—Drainage Works .. | 1,63,028 | 22,524 | 1,85,551 |
| | | | | 7.—Losses on Stock .. | .. | 449 | 449 |
| | | | | 8.—Compensation .. | 64,522 | 61,543 | 1,26,065 |
| | | | | Total .. | 38,97,640 | 19,169 | 47,16,809 |
| | | | | IV. ESTABLISHMENT. | | | |
| Rent of buildings .. | 49,843 | 8,397 | 58,240 | Direction and Account .. | 16,22,742 | 5,27,215 | 21,76,816 |
| | | | | Executive Establishment .. | 26,659 | 26,659 | 53,318 |
| Fines .. | 13,672 | 2,052 | 15,724 | Revenue do. .. | 19,67,407 | 2,91,403 | 22,58,809 |
| | | | | Total (IV) .. | 35,90,149 | 8,45,476 | 44,35,625 |
| | | | | TOOLS AND PLANT. | | | |
| Miscellaneous .. | 1,68,565 | 12,785 | 1,71,350 | 1.—Scientific Instruments and Drawing Materials .. | 85,415 | 18,057 | 1,03,472 |
| | | | | 2.—Plant and Machinery .. | .. | .. | .. |
| Total .. | 1,38,36,229 | 30,56,648 | 1,68,92,877 | 12.—Miscellaneous .. | .. | .. | .. |
| | | | | 13.—Repairs and Carriage .. | .. | .. | .. |
| Deduct Refunds .. | .. | 612 | 612 | Total .. | 85,415 | 18,057 | 1,03,472 |
| | | | | REFUNDS OF REVENUE. | 8,017 | .. | 8,017 |
| Net Total .. | 1,38,36,229 | 30,56,036 | 1,68,92,265 | Less RECOVERIES ON REVENUE ACCOUNTS. | .. | 5,071 | 5,071 |
| Interest on sale-proceeds of waste lands benefited. | 5,90,790 | 1,42,048 | 7,41,838 | Total .. | 81,41,040 | 18,42,604 | 99,83,644 |
| Share of land revenue .. | 6,64,526 | 37,47,106 | 44,12,332 | Indirect charges debitable to Revenue Account as per Account No. 5. | 5,03,120 | 1,28,208 | 6,31,328 |
| | | | | Total charges .. | 86,44,160 | 19,70,812 | 1,06,14,972 |
| Total .. | 12,64,316 | 38,89,854 | 51,54,170 | Balance Net Revenue .. | 64,56,385 | 49,75,698 | 1,14,31,483 |
| Total Receipts .. | 1,51,00,545 | 69,15,910 | 2,20,40,455 | GRAND TOTAL .. | 1,51,00,545 | 69,45,410 | 2,20,40,455 |

(a) Adjustment of Revenue Establishment wrongly charged against Executive Establishment.

(b) Excluding share of Accounts Establishment from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Chenab Canal Project

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | | Amount. | |
|--|-------------|-------------|--|-----------|-------------|
| | Rs. | Rs. | | Rs. | |
| Total interest charges to end of 1920-21. .. | 1,30,57,496 | 1,30,57,496 | Net revenue realized to and of 1920-21 | 64,56,385 | |
| Do. do. for the year 1921-22 | | | Do. do. during 1921-22 | 40,75,098 | |
| Total outlay to end of 31st March 1917 .. | 3,43,61,637 | | Balance net interest charges .. | 27,77,048 | |
| Total outlay from 1st April 1917 to 31st March 1921 .. | 14,316 | | | | |
| Add half outlay during 1921-22 .. | 1,23,902 | | | | |
| Total .. | 1,38,308 | | | | |
| | Rs. | | | | |
| Interest at 3.252 per cent. on Rs. 3,43,61,637 .. | 11,42,603 | | | | |
| Do. 6.1038 per cent. on Rs. 1,38,308 .. | 8,442 | 11,51,035 | | | |
| Total .. | | 1,42,08,531 | Total .. | | 1,42,08,531 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22

| PARTICULARS. | | | | | Previous. | 1921-22. | Total. |
|--|----|----|----|----|-----------|---------------------|----------|
| | | | | | Rs. | Rs. | Rs. |
| CAPITAL.— | | | | | | | |
| Capitalization of abatement of Land Revenue .. | .. | .. | .. | .. | 3,66,375 | 100 | 3,66,475 |
| Leave and Pension Allowances .. | .. | .. | .. | .. | 6,31,830 | (a) 7,023
—8,786 | 6,30,067 |
| Audit and Account Charges .. | .. | .. | .. | .. | .. | 1,781 | 1,781 |
| Total .. | | | | | 9,98,205 | 118 | 9,98,323 |
| REVENUE.— | | | | | | | |
| Capitalization of abatement of Land Revenue .. | .. | .. | .. | .. | 500 | .. | 500 |
| Leave and Pension Allowances .. | .. | .. | .. | .. | 5,02,620 | 1,18,367 | 6,20,987 |
| Audit and Account Charges .. | .. | .. | .. | .. | .. | 9,841 | 9,841 |
| Total .. | | | | | 5,03,120 | 1,28,208 | 6,31,328 |

(a) In the last year's accounts Rs. 4,363 were shown as plus instead of minus, hence this write back.

OFFICE OF ACCOUNT
ADMINISTRATIVE ACCOUNTS

Upper Chenab

No. 6.—STATEMENT COMPARING CHARGES TO

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | |
|---|--|---|-------------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. |
| | Rs. | Rs. | Rs. |
| DIRECT CHARGES. | | | |
| Works | 2,75,59,192 | —56,075 | 2,75,03,117 |
| Establishment | 44,87,333 | 65,502 | 45,52,835 |
| Tools and Plant | 21,00,148 | —1,040 | 21,88,208 |
| Suspense Balance | .. | .. | .. |
| Total .. | 3,42,36,673 | 7,487 | 3,42,44,160 |
| Less Receipts on Capital Account | 5,50,805 | 1,00,307 | 6,50,172 |
| Net Total .. | 3,36,76,808 | —92,820 | 3,35,83,988 |
| INDIRECT CHARGES. | | | |
| Capitalized abatement of Land Revenue | 3,59,650 | 6,825 | 3,66,475 |
| Leave and Pension Allowances | 6,20,897 | 9,170 | 6,30,067 |
| Account and Audit | .. | 1,781 | 1,781 |
| Total .. | 9,80,547 | 17,776 | 9,98,323 |
| GRAND TOTAL .. | 3,46,57,355 | —75,044 | 3,45,82,311 |

† ANT-GENERAL.

FOR THE YEAR 1921-22.

Canal Project.

DATE WITH SANCTIONED ESTIMATE.

| CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. | Rs. |
|--------------------|--------------------------------|------------------------------|--|--------------------------------------|----------|
| Charges to date. | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | | |
| Rs. | Rs. | Rs. | Rs. | I. B. No. | |
| 3,66,795 | 6,86,611 | 3,29,816 | 2,78,69,912 | 1116, dated 25th February 1921 | 1,401 |
| | | | | " " 1585 " 30th March 1921 | 28,097 |
| | | | | " " 0581 " 16th July 1918 | 4,532 |
| | | | | " " 0579 " " " " | 2,804 |
| | | | | " " 0577 " " " " | 3,993 |
| | | | | " " 254 " 20th January 1919 | 6,793 |
| | | | | " " 316 " 24th January 1919 | 18,358 |
| | | | | " " 124 " 8th January 1919 | 6,782 |
| | | | | " " 122 " " " " | 1,484 |
| | 1,48,501 | 1,48,501 | 45,52,835 | " " 313 " 24th January 1919 | 13,091 |
| | | | | " " 1045 " 22nd March 1919 | 5,776 |
| | | | | " " 1232 W. I. dated 8th April 1919 | 35,141 |
| | | | | " " 1234 " " " " | 2,08,290 |
| | | | | " " 2574 " " 10th October 1919 | 1,952 |
| | 10,298 | 10,298 | 21,88,208 | " " 1903 " " 12th March 1920 | 1,418 |
| | | | | " " 1196 " " 19th March 1920 | 14,545 |
| | | | | " " 1967 " " 10th March 1920 | 2,224 |
| | | | | " " 1762 " " 31st May 1920 | 4,810 |
| | | | | " " 2695 " " 8th November 1920 | 3,261 |
| 6,83,125 | | -6,83,125 | 6,83,125 | " " 2007 " " " " | 9,701 |
| | | | | " " 2040 " " 25th January 1921 | 5,266 |
| | | | | " " 38 " " 4th January 1921 | 1,535 |
| | | | | " " 110 " " 11th January 1921 | 1,801 |
| | | | | " " 970 " " 10th July 1920 | 2,280 |
| | | | | " " 1857 " " 9th April 1921 | 5,791 |
| 10,39,020 | 8,45,419 | -1,94,510 | 3,52,84,090 | " " 2104 " " 29th April 1921 | 5,254 |
| | | | | " " 075 " " 20th May 1921 | 16,701 |
| | | | | " " 073 " " " " | 4,691 |
| | | | | " " 002 " " 23rd May 1921 | 3,963 |
| | | | | " " 0356 & 357 " " 15th June 1921 | 1,40,548 |
| | | | | " " 0471 W. I. " " 21st June 1921 | 6,065 |
| | | | | " " 01165 " " 19th August 1921 | 3,940 |
| | | | | " " 0386 " " 20th January 1922 | 12,705 |
| | | | | " " 01479 " " 9th September 1921 | 16,329 |
| | | | | " " 01472 " " " " | 12,962 |
| | | | | " " 01468 " " " " | 17,765 |
| | | | | " " 01474 " " " " | 5,774 |
| | | | | " " 01466 " " " " | 12,243 |
| 10,39,020 | 8,45,410 | -1,94,510 | 3,40,23,008 | " " 01420 " " 7th September 1921 | 30,215 |
| | | | | " " 01422 " " " " | 17,131 |
| | | | | " " 01424 " " " " | 12,829 |
| | | | | " " 01426 " " " " | 17,255 |
| | | | | " " 01418 " " " " | 9,124 |
| | | | | " " 01408 " " " " | 13,260 |
| | | | | " " 09410 " " " " | 10,558 |
| | | | | " " 01412 " " " " | 14,525 |
| | | | | " " 01414 " " " " | 9,690 |
| | | | | " " 01406 " " " " | 10,419 |
| | | | | " " 01416 " " " " | 6,478 |
| | | | | " " 01337 " " 6th September 1921 | 18,096 |
| | | | | " " 01047 " " 21st September 1921 | 5,828 |
| | | | | " " 01045 " " " " | 7,906 |
| | | | | " " 01701 " " 29th September 1921 | 3,583 |
| | | | | " " 01157 " " 10th August 1921 | 3,365 |
| | | | | " " 1,159 " " " " | 2,390 |
| | | | | " " 3306 " " 4th November 1921 | 5,682 |
| | | | | " " 3308 " " " " | 20,358 |
| | | | | " " 3959 " " 10th December 1921 | 5,554 |
| | | | | " " 1077 " " 21st February 1922 | 27,465 |
| | | | | " " 1003-1001 " " 20th February 1922 | 10,352 |
| | | | | " " 1058-1050 " " 18th February 1922 | 5,554 |
| | | | | " " 1402 " " 8th March 1922 | 442 |
| | | | | " " 1488 " " " " | 8,101 |
| | | | | " " 1490 " " " " | 4,549 |
| | | | | " " 1082 " " 16th March 1922 | 8,312 |
| | | | | " " 1470 " " 7th March 1922 | 10,850 |
| | | | | " " 1472 " " " " | 2,366 |
| | | | | " " 1002 " " 27th March 1922 | 10,987 |
| | | | | " " " " " 4th January 1922 | 43,316 |
| | | | | Total | 8,45,410 |
| 10,39,020 | 8,45,410 | -1,94,510 | 3,56,22,231 | | |

OFFICE OF THE ACCOUNTANT-GENERAL,
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Bari Doab Canal Project.
No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of Construction as now estimated (Construction Estimate closed on 31st March 1917). | Expenditure against closed Estimate. |
|---|-----------------|----------|-------------|--|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | |
| 1.—HEAD WORKS— | | | | | |
| A.—Preliminary Expenses | 13,866 | | 13,866 | | |
| B.—Land | 2,25,100 | | 2,25,100 | | |
| C.—Works | 47,67,286 | 3,222 | 47,70,508 | | |
| K.—Buildings | 2,08,500 | 3,283 | 2,11,783 | | |
| O.—Miscellaneous | 28,392 | | 28,392 | | |
| P.—Maintenance | 78,796 | | 78,796 | | |
| Q.—Losses on Stock | 1,912 | | 1,912 | | |
| Total | 53,23,852 | 6,505 | 53,30,357 | | |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| A.—Preliminary Expenses | 1,39,107 | | 1,39,107 | | |
| B.—Land | 17,544 | | 17,544 | | |
| D.—Regulators | 1,27,792 | | 1,27,792 | | |
| E.—Falls and Weirs | 4,15,853 | | 4,15,853 | | |
| F.—River and Hill Torrent Works | 671 | | 671 | | |
| F (1).—Other Cross Drainage Works | 4,54,985 | | 4,54,985 | | |
| G.—Bridges | 4,70,962 | | 4,70,962 | | |
| H.—Escapes | 63,556 | | 63,556 | | |
| J.—Mills | 1,620 | | 1,620 | | |
| K.—Buildings | 14,42,231 | 18,881 | 14,61,112 | | |
| L.—Earthwork | 33,37,183 | | 33,37,183 | | |
| M.—Plantations | 1,52,877 | | 1,52,877 | | |
| O.—Miscellaneous | 83,310 | | 83,310 | | |
| P.—Maintenance | 2,38,255 | —710 | 2,37,539 | | |
| Q.—Losses on Stock | 4,330 | | 4,330 | | |
| Total | 60,50,485 | 18,165 | 60,68,650 | | |
| 3.—DISTRIBUTARIES— | | | | | |
| A.—Preliminary Expenses | 1,08,788 | 650 | 1,09,430 | | |
| B.—Land | 1,81,412 | —83 | 1,81,329 | | |
| C.—Works | 14,10,633 | 43,580 | 14,54,222 | | |
| L.—Earthwork | 15,87,800 | 45,051 | 16,33,451 | | |
| O.—Miscellaneous | 12,16,600 | —61,396 | 11,55,204 | | |
| P.—Maintenance | 34,449 | | 34,449 | | |
| Total | 45,39,770 | 28,411 | 45,68,181 | | |
| 4.—DRAINAGE AND PROTECTIVE WORKS— | | | | | |
| A.—Preliminary | 8,969 | | 8,969 | | |
| B.—Land | 57,976 | | 57,976 | | |
| C.—Works | 4,914 | | 4,914 | | |
| L.—Earthwork | 44,366 | | 44,366 | | |
| O.—Miscellaneous | 13,429 | 62 | 13,491 | | |
| Total | 1,29,054 | 62 | 1,29,716 | | |
| TOTAL I.—WORKS | 1,69,43,761 | 53,143 | 1,69,96,904 | 1,72,51,811 | 1,72,31,680 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Bari Doab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now effected (Construction Estimate closed on 31st March 1917) | Expenditure against closed Estimate. |
|--|-----------------|----------|-------------|--|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| II.—ESTABLISHMENT. | | | | | |
| 3. Direction and Accounts | (a) | | | | |
| 6. Executive | 31,73,688 | 21,149 | 31,94,837 | | |
| 7. Special Survey | | | | | |
| Total | 31,73,688 | 21,149 | 31,94,837 | 32,39,050 | 31,93,964 |
| III.—TOOLS AND PLANT. | | | | | |
| 1. Scientific Instruments and Drawing Materials .. | | | | | |
| 2. Plant and Machinery | | | | | |
| 3. Tools | | | | | |
| 4. Navigation Plant | | | | | |
| 5. Camp Equipage | 19,53,224 | 1,078 | 19,54,302 | | |
| 6. Live Stock | | | | | |
| 7. Office Furniture | | | | | |
| 8. Repairs and Carriage | | | | | |
| 9. Miscellaneous | | | | | |
| 10. Railway Plant and Rolling Stock | | | | | |
| Total | 19,53,224 | 1,078 | 19,54,302 | 19,58,412 | 19,54,302 |
| IV.—SUSPENSE ACCOUNT. | | | | | |
| 14. Stock | 6,43,103 | 7,977 | 6,51,080 | | |
| 15. Stock Purchases | —22,813 | —3,841 | —26,654 | | |
| 16. Stock Sales | 650 | | 650 | | |
| 17. Miscellaneous Advances | 24,082 | 3,925 | 28,008 | | |
| 18. London Invoices | | | | | |
| 19. London Stores | | | | | |
| TOTAL | 6,45,522 | 8,062 | 6,53,584 | | |
| GRAND TOTAL | 2,27,16,195 | 83,132 | 2,27,99,327 | 2,24,49,873 | 2,23,79,916 |
| V.—Less RECEIPTS ON CAPITAL ACCOUNT | 5,76,193 | 39,162 | 6,00,355 | 6,06,355 | 6,06,355 |
| Net Total | 2,21,40,002 | 53,270 | 2,21,93,272 | | |
| APPORTIONMENT. | | | | | |
| 49.—Irrigation Works | 2,10,72,451 | | | | 2,17,13,591 |
| 43.—M. W. and Navigation Imperial | 1,67,521 | 53,270 | 2,20,79,791 | | |

(a) Excludes share of Accounts Establishment from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Bari Doab Canal Project.

No. 3—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|------------------------|-------------|-----------|-------------|---|-------------|-----------|-------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | (1).—EXTENSIONS AND IMPROVEMENTS. | Rs. | Rs. | Rs. |
| Occupiers' rates | 1,07,19,353 | 22,47,451 | 1,29,66,804 | 1. Head Works | 64,473 | 7,587 | 72,060 |
| | | | | 2. Main Canal and Branches .. | 1,43,171 | 87,169 | 2,30,339 |
| | | | | 3. Distributaries | 1,88,029 | 67,334 | 2,55,263 |
| | | | | 4. Drainage and Protective Works. | 8,150 | 1,331 | 9,487 |
| | | | | TOTAL (1) .. | 4,04,729 | 1,63,420 | 5,68,149 |
| | | | | GRANT-IN-AID .. | .. | 4,430 | 4,430 |
| | | | | (2).—MAINTENANCE AND REPAIRS. | | | |
| | | | | 1. Head Works | 3,80,094 | 80,919 | 4,71,013 |
| | | | | 2. Main Canal and Branches .. | 13,24,017 | 3,14,223 | 16,38,240 |
| | | | | 3. Distributaries | 11,65,708 | 2,94,758 | 14,60,466 |
| | | | | 4. Drainage Works.. .. | 16,766 | 470 | 17,242 |
| | | | | (7).—LOSSES IN STOCK | .. | 735 | 735 |
| | | | | (8).—COMPENSATION | .. | 118 | 118 |
| | | | | TOTAL (2) .. | 28,96,595 | 6,01,229 | 35,87,814 |
| | | | | (4).—ESTABLISHMENT. | | | |
| | | | | 5. Direction and Accounts .. | (a) | | |
| | | | | 6. Executive Establishment .. | 14,07,486 | 6,83,653 | 20,88,139 |
| | | | | 7(a). Revenue do | 15,48,062 | 2,70,719 | 18,27,782 |
| | | | | TOTAL .. | 29,55,449 | 9,50,372 | 39,16,821 |
| | | | | (5).—TOOLS AND PLANT. | | | |
| | | | | 1. Scientific Instruments and Drawing Material .. | | | |
| | | | | 2. Plant and Machinery | | | |
| | | | | 3. Tools | | | |
| | | | | 4. Navigation Plant | 33,457 | 28,498 | 71,955 |
| | | | | 5. Camp Equipage.. .. | | | |
| | | | | 6. Live Stock | | | |
| | | | | 7. Office Furniture.. .. | | | |
| | | | | 8. Repairs and Carriage .. | | | |
| | | | | Miscellaneous | | | |
| | | | | TOTAL .. | 33,457 | 28,498 | 71,955 |
| | | | | 6.—REFUNDS OF REVENUE. | 5,863 | .. | 5,863 |
| | | | | 7.—RECOVERY ON REVENUE ACCOUNTS. | .. | 1,760 | 1,760 |
| | | | | TOTAL .. | 62,06,203 | 18,56,155 | 81,52,358 |
| | | | | Indirect Charges debitable to Revenue Account as per Account No. 5. | 4,13,777 | 1,44,105 | 5,57,972 |
| | | | | TOTAL CHARGES .. | 67,09,980 | 20,00,390 | 87,10,37 |
| | | | | Balance, Net Revenue | 1,11,41,781 | 23,01,460 | 1,38,36,241 |
| | | | | GRAND TOTAL .. | 1,81,51,761 | 41,91,850 | 2,25,46,611 |
| | | | | | 1,81,51,761 | 41,91,850 | 2,25,46,611 |

(a) Excludes share of Accounts Establishment from 1912-13 to 1917-18.

Lower Bari Doab Canal Project.

[illegible]

| PARTICULARS. | | | | | | Previous. | 1921-22. | Total. |
|--------------------------------|----|----|----|----|-------|-----------|----------|----------|
| | | | | | | | ₹ | " |
| | | | | | | Rs. | Rs. | Rs. |
| CAPITAL — | | | | | | | | |
| Capitalization of Land Revenue | .. | .. | .. | .. | .. | 44,225 | | 44,225 |
| Leave and Pension Allowances | .. | .. | .. | .. | .. | 4,33,375 | 3,035 | 43,410 |
| Audit and Account Charges | .. | .. | .. | .. | .. | .. | 531 | 531 |
| | | | | | Total | 4,77,600 | 3,566 | 4,81,166 |
| REVENUE — | | | | | | | | |
| Leave and Pension Allowances | .. | .. | .. | .. | .. | 4,13,777 | 1,85,049 | 5,40,426 |
| Audit and Account Charges.. | .. | .. | .. | .. | .. | .. | 8,540 | 8,540 |
| | | | | | Total | 4,13,777 | 1,44,195 | 5,57,072 |

IRRIGATION BRANCH.

OFFICE OF ACCOUNTS

ADMINISTRATIVE ACCOUNTS

No. 6.—STATEMENT COMPARING CHARGES

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS | | |
|---|---|--|--------------------|
| | Expenditure
against
Construction
Estimate. | Expenditure
against
open canal
sanctions. | Total. |
| | Rs. | Rs. | Rs. |
| DIRECT CHARGES— | | | |
| Works | 1,60,86,866 | 11,44,814 | 1,72,31,680 |
| Establishment | 30,07,003 | 1,87,831 | 31,94,837 |
| Tools and Plant | 19,34,767 | 10,535 | 19,54,302 |
| Suspense balances | .. | .. | .. |
| Total .. | 2,10,28,636 | 13,52,183 | 2,23,80,819 |
| Less—Receipts on Capital Account | 5,10,369 | 95,086 | 6,06,355 |
| Net Total .. | 2,05,18,267 | 12,56,197 | 2,17,74,464 |
| INDIRECT CHARGES— | | | |
| Capitalized abatement of Land Revenue | 43,950 | 275 | 44,225 |
| Leave and Pension Allowances | 4,10,010 | 26,370 | 4,36,410 |
| Audit and Accounts Charges | .. | 531 | 531 |
| Total .. | 4,53,960 | 27,176 | 4,81,136 |
| GRAND TOTAL .. | 2,09,72,257 | 12,83,373 | 2,22,55,630 |

PUNJAB PROVINCE

TANT-GENERAL.

FOR THE YEAR 1921-22.

TO DATE WITH SANCTIONED ESTIMATE.

| CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. |
|--------------------|--------------------------------|------------------------------|--|--|
| Charges to date. | Amount of sanctioned Estimate. | Unspent balance of Estimate. | | |
| Rs. | Rs. | Rs. | Rs. | |
| -2,31,776 | 2,37,108 | +4,71,881 | 1,69,06,004 | Secretary's No. 2188, dated 10th May 1917 14,005 |
| | | | | " " 1091 " 14th September 1917.. .. 9,471 |
| | | | | " " 1397 " 15th October 1917 3,282 |
| | | | | " " 240 " 18th January 1918 3,044 |
| | | | | " " 352 " 29th January 1918 10,535 |
| | | | | " " 1219 " 21st September 1918 2,979 |
| | | | | " " 635 " 11th February 1920 27,635 |
| | 45,686 | 45,686 | 31,91,887 | " " 1271 " 9th June 1919 8,760 |
| | | | | " " 9616 " 15th August 1919 2,363 |
| | | | | " " 2282 " 21st October 1919 10,290 |
| | | | | " " 263 " 21st January 1920 4,652 |
| | | | | " " 3081 " 4th December 1920 41,542 |
| | 4,110 | 4,110 | 19,54,302 | " " 3314 " 23rd December 1920 4,817 |
| | | | | " " 3312 " 23rd December 1920 2,892 |
| | | | | " " 12 " 3rd January 1921 15,414 |
| | | | | " " 320 " 20th January 1921 5,700 |
| | | | | " " 1221 " 9th March 1921 12,742 |
| | | | | " " 1438 " 16th March 1921 5,484 |
| 6,53,584 | .. | -6,53,584 | 6,53,584 | " " 2207 " 2nd May 1921 1,944 |
| | | | | " " 050 " 19th May 1921 4,162 |
| | | | | " " 0380 " 16th June 1921 5,117 |
| | | | | " " 0705 " 19th July 1921 4,177 |
| | | | | " " 01135 " 17th August 1921 1,357 |
| | | | | " " 1267 " 26th August 1921 3,341 |
| | | | | " " 3006 " 21th October 1921 51,422 |
| | | | | " " 63230 " 3rd November 1921 4,052 |
| | | | | " " 669 " 1st February 1922 3,183 |
| | | | | " " 668 " 1st February 1922 5,626 |
| | | | | " " 855 " 15th February 1922 4,716 |
| | | | | " " 1022 " 17th February 1922 3,013 |
| | | | | " " 1117 " 22nd February 1922 1,667 |
| | | | | " " 1057 " 28th March 1922 7,451 |
| | | | | 2,86,904 |
| 4,18,808 | 2,86,904 | -1,31,004 | 2,27,99,627 | |
| | | | | |
| | | | 44,225 | |
| | | | 6,410 | |
| | | | 531 | |
| | | | 4,81,100 | |
| 4,18,808 | 2,86,904 | -1,31,004 | 2,20,74,438 | |


OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | | | | | DIRECT CHARGES. | | | Cost of construction as now estimated. |
|---|--|--|--|--|-----------------|----------|-------------|--|
| | | | | | Imperial. | | | |
| | | | | | Previous. | 1921-22. | Total. | |
| | | | | | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS | | | | | | | | |
| I.—HEAD WORKS— | | | | | | | | |
| A.—Preliminary Expenses | | | | | 7,349 | .. | 7,349 | |
| B.—Land | | | | | 11,020 | .. | 11,020 | |
| C.—Works | | | | | 1,818 | .. | 1,818 | |
| E.—Buildings | | | | | 2,01,646 | .. | 2,01,646 | |
| O.—Miscellaneous | | | | | 37,417 | .. | 37,417 | |
| P.—Maintenance | | | | | 14,972 | .. | 14,972 | .. |
| TOTAL | | | | | 2,74,221 | .. | 2,74,221 | |
| II.—MAIN CANAL AND BRANCHES— | | | | | | | | |
| A.—Preliminary Expenses | | | | | 1,22,070 | .. | 1,22,070 | |
| B.—Land | | | | | 9,32,187 | .. | 9,32,187 | |
| D.—Regulators | | | | | 33,11,274 | .. | 33,11,274 | |
| E.—Falls | | | | | 1,66,557 | .. | 1,66,557 | |
| F.—River and Hill Torrent Works | | | | | 1,37,13,631 | .. | 1,37,13,631 | |
| G.—Bridges | | | | | 10,69,395 | .. | 10,69,395 | |
| H.—Escapes | | | | | 2,69,177 | .. | 2,69,177 | |
| K.—Buildings | | | | | 8,18,464 | 13,550 | 8,32,034 | |
| L.—Earthwork | | | | | 1,07,37,710 | .. | 1,07,37,710 | |
| M —Plantations | | | | | 54,843 | .. | 54,843 | |
| O.—Miscellaneous | | | | | 62,160 | .. | 62,160 | |
| P.—Maintenance | | | | | 4,02,059 | .. | 4,02,059 | |
| Q.—Losses on Stock | | | | | 4,577 | .. | 4,577 | |
| TOTAL | | | | | 3,16,44,160 | 13,550 | 3,16,67,710 | |
| III.—DISTRIBUTARIES— | | | | | | | | |
| A.—Preliminary Expenses | | | | | 37,653 | .. | 37,653 | |
| B.—Land | | | | | 4,65,848 | .. | 4,65,848 | |
| C.—Works | | | | | 8,31,591 | 1,991 | 8,33,582 | |
| K.—Buildings | | | | | .. | .. | .. | |
| L.—Earthwork | | | | | 8,08,702 | 7,059 | 8,15,760 | |
| O.—Miscellaneous | | | | | 4,70,250 | 17,452 | 4,87,702 | |
| TOTAL | | | | | 26,14,344 | 26,501 | 26,40,845 | |





OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Upper Jhelum Canal Project

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated. | Expenditure against closed Estimates |
|---|------------------|----------|-------------|--|--------------------------------------|
| | Imperial. | | | | |
| | Previous. | 1921-22. | Total. | | |
| IV.—DRAINAGE AND PROTECTIVE WORKS— | Rs. | Rs. | Rs. | Rs. | Rs. |
| A.—Preliminary Expenses | 8,210 | 2,177 | 10,387 | | |
| B.—Land | 1,450 | .. | 1,450 | | |
| C.—Works | 1,411 | .. | 1,411 | | |
| E.—Buildings | .. | .. | .. | | |
| L.—Earthwork | 52,631 | 1,661 | 54,292 | | |
| O.—Miscellaneous | 1,818 | .. | 1,818 | | |
| Total | 65,550 | 3,838 | 69,388 | | |
| V.—WATER COURSES | .. | —31,069 | —31,069 | | |
| O.—Miscellaneous | .. | —31,069 | —31,069 | | |
| Total I.—WORKS | 3,45,08,275 | 11,920 | 3,46,10,195 | 3,44,90,778 | 3,43,67,923 |
| ESTABLISHMENT | (a)
60,88,101 | 4,423 | 60,92,524 | | |
| Total | 60,88,101 | 4,423 | 60,92,524 | 51,13,780 | 50,92,524 |
| TOOLS AND PLANT | 46,11,413 | 369 | 46,11,812 | .. | 46,14,812 |
| Total | 46,14,443 | 369 | 46,14,812 | 46,16,816 | |
| SUSPENSE. | | | | | |
| I. Purchases | —3,760 | —18,368 | —22,128 | | |
| II. Stock | 7,05,412 | 67,882 | 7,73,294 | | |
| III. Miscellaneous Advances | 12,015 | —2,368 | 10,277 | | |
| IV. London Stores | .. | .. | .. | | |
| Total | 7,14,297 | 47,146 | 7,61,443 | | |
| GRAND TOTAL | 4,50,15,416 | 63,858 | 4,50,79,274 | 4,42,26,162 | 4,40,76,569 |
| V.—LESS RECEIPTS AND RECOVERIES ON CAPITAL ACCOUNT. | 14,22,716 | 10,347 | 14,33,062 | 14,33,062 | 14,33,062 |
| NET TOTAL | 4,35,92,701 | 53,511 | 4,36,46,212 | 4,27,93,100 | 4,26,42,497 |
| APPORTIONMENT. | | | | | |
| 55. (a) Irrigation Works | 4,35,25,763 | 53,511 | 4,35,79,264 | | |
| 16. Minor Works and Navigation—Imperial | 66,948 | .. | 66,948 | | |

(a) Excludes share of Accounts Establishment from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.
Upper Jhelum Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|-----------|-----------|-----------|--|-----------|-----------|-----------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| | | | | (1). EXTENSIONS AND IMPROVEMENTS. | | | |
| Water rates | 38,02,420 | 14,92,501 | 52,94,921 | 1.—Head Works | 31,054 | 472 | 32,426 |
| | | | | 2.—Main Canal and Branches | 1,64,381 | 30,440 | 1,94,821 |
| | | | | 3.—Distributaries | 18,304 | 19,716 | 38,020 |
| Sales of water | 6,920 | 905 | 7,845 | 4.—Drainage and Protective Works | 40,029 | 76,851 | 1,17,780 |
| | | | | Total | 2,55,678 | 1,27,479 | 3,83,087 |
| Plantations | 2,726 | 2,740 | 5,466 | (2). MAINTENANCE AND REPAIRS. | | | |
| | | | | 1.—Head Works | 91,003 | 20,944 | 1,11,947 |
| Other canal produce | 85 | .. | 85 | 2.—Main Canal and Branches | 17,36,032 | 5,37,040 | 22,72,092 |
| | | | | 3.—Distributaries | 3,24,812 | 1,22,970 | 4,47,891 |
| Rents of buildings | 31,716 | 7,464 | 39,180 | 4.—Drainage Works | 6,397 | 6,659 | 13,096 |
| | | | | 7.—Losses on Stock | .. | 558 | 558 |
| | | | | 8.—Compensation | .. | 994 | 994 |
| | | | | Total | 21,57,304 | 6,89,214 | 28,46,578 |
| Fines | 4,264 | 1,336 | 5,600 | (3). ESTABLISHMENT. | | | |
| | | | | Direction and Accounts | (a) | | |
| Miscellaneous | 68,920 | 7,614 | 1,00,534 | Executive Establishment | 11,76,240 | 6,06,116 | 17,82,302 |
| | | | | Medical Establishment | .. | | |
| | | | | A.—Revenue Establishment | 8,70,606 | 1,65,030 | 10,36,176 |
| | | | | Total | 20,46,842 | 7,72,093 | 28,18,938 |
| Acreeage rate | 10,192 | 11,571 | 21,763 | (4) TOOLS AND PLANT | 29,312 | 35,929 | 65,241 |
| | | | | Total | 29,312 | 35,929 | 65,241 |
| Total | 39,77,263 | 15,24,031 | 55,01,294 | (5). REFUNDS OF REVENUE | 8,781 | .. | 8,781 |
| Deduct Refunds | .. | 2,060 | 2,060 | Total | 44,07,877 | 16,24,718 | 61,22,895 |
| NET TOTAL | 39,77,263 | 15,21,971 | 54,99,234 | Less Recoveries on Revenue Account | .. | 4,244 | 4,244 |
| Portion of Land Revenue due to W.C.P.s | .. | 6,40,834 | 6,40,834 | NET TOTAL | 41,97,877 | 16,20,474 | 61,18,351 |
| | | | | Indirect Charges debitable to Revenue Account as per Account No. 5 | 2,87,684 | 1,16,335 | 4,04,019 |
| | | | | Total Charges | 47,85,561 | 17,36,809 | 65,22,370 |
| | | | | Balance, Net Revenue | —8,08,293 | 4,25,696 | —3,82,302 |
| TOTAL | 20,77,263 | 21,62,105 | 61,40,068 | GRAND TOTAL | 39,77,283 | 21,62,805 | 61,40,088 |

(a) Excludes share of Accounts Establishment from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sutlej Valley Project.

No 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | | | | | | | Cost of construction as now estimated. | Expenditure against closed Estimates. |
|----------------------------------|-----------------|----------|--------|---------------|----------|--------|-----------|----------|--------|--|---------------------------------------|
| | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | | | | | | | |
| 1. HEAD WORKS— | | | | | | | | | | | |
| A.—Preliminary Expenses | | 7,107 | 7,107 | | | | | | | | |
| B.—Land | | | | | | | | | | | |
| C.—Works | | | | | | | | | | | |
| K.—Buildings.. .. | | | | | | | | | | | |
| O.—Miscellaneous .. | | | | | | | | | | | |
| P.—Maintenance .. | | | | | | | | | | | |
| TOTAL .. | | 7,107 | 7,107 | | | | | | | | |
| 2. MAIN CANAL AND BRANCHES. | | | | | | | | | | | |
| A.—Preliminary Expenses | | 1,229 | 1,229 | | | | | | | | |
| B.—Land | | | | | | | | | | | |
| D.—Regulators | | | | | | | | | | | |
| E.—Falls and Weirs .. | | | | | | | | | | | |
| F.(1)—Other Cross Drainage Works | | | | | | | | | | | |
| G.—Bridges | | | | | | | | | | | |
| H.—Escapes | | | | | | | | | | | |
| I.—Navigation Works .. | | | | | | | | | | | |
| J.—Mills | | | | | | | | | | | |
| K.—Buildings | | | | | | | | | | | |
| L.—Earthwork | | | | | | | | | | | |
| M.—Plantations | | | | | | | | | | | |
| N.—Tanks and Reservoirs | | | | | | | | | | | |
| O.—Miscellaneous | | | | | | | | | | | |
| P.—Maintenance | | | | | | | | | | | |
| TOTAL .. | | 1,229 | 1,229 | | | | | | | | |
| 3. DISTRIBUTARIES— | | | | | | | | | | | |
| A.—Preliminary Expenses | | | | | | | | | | | |
| B.—Land | | | | | | | | | | | |
| C.—Works | | | | | | | | | | | |
| L.—Earthwork | | | | | | | | | | | |
| O.—Miscellaneous | | | | | | | | | | | |
| P.—Maintenance | | | | | | | | | | | |
| TOTAL .. | | 8,426 | 8,426 | | | | | | | | |
| Carried over | | 8,426 | 8,426 | | | | | | | | |

Sutlej Valley Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

[illegible]

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Sutlej Valley Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1921-22.

| | Amount. | | Amount. |
|--|---------|--|---------|
| | Rs. | | Rs. |
| Total Interest charges to end of 1920-21 | | Net Revenue realized to end of 1920-21 | |
| " " " for the year 1921-22 | | " " during 1921-22 | |
| Total during 1917-18- | | | |
| Do. 1918-19. | | | |
| Do. 1919-20 | | | |
| Do. 1920-21 | | | |
| Outlay during 1921-22 | 85,503 | | |
| | 85,503 | | |
| Interest on Rs. 85,503 @ 6-1038 | 5,223 | Balance Interest charges | 5,223 |
| Total Interest charges | 5,223 | | |
| Balance Revenue after defraying Interest charges | | | |
| Total | 5,223 | Total | 5,223 |

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|---|-----------|----------|--------|
| | Rs. | Rs. | Rs. |
| CAPITAL— | | | |
| Capitalization of abatement of Land Revenue Leave and Pension Allowances— | | | |
| (i) Provincial | | 6,081 | 6,081 |
| (ii) Contribution | | 9,110 | 9,110 |
| Less: Leave and Pension Allowance debited to Contribution treated as direct charges | | 9,110 | 9,110 |
| Net Provincial | | 6,081 | 6,081 |
| Audit and Account Establishment— | | | |
| (i) Provincial | | 157 | 157 |
| (ii) Contribution | | 240 | 240 |
| Less: charged to contributions and treated as direct net Revenue charges | | 240 | 240 |
| Net Provincial | | 157 | 157 |
| GRAND TOTAL | | 6,238 | 6,238 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CSD SANCTIONS. | | | CURRENT SANCTIONS. | | | | REMARKS. |
|--|--|---|--------|--------------------|--------------------------------|------------------------------|--|----------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of sanctioned Estimate. | Unspent Balance of Estimate. | Total charges to date against old and current sanctions. | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| DIRECT CHARGES— | | | | | | | | |
| Works | | | | 39,724 | 12,56,10,042 | 12,55,70,318 | 39,724 | |
| Establishment | | | | 1,17,401 | 1,04,26,965 | 1,03,09,564 | 1,17,401 | |
| Tools and Plant | | | | 75,508 | | —75,508 | 75,508 | |
| Suspense | | | | 1,73,550 | | —1,73,550 | 1,73,550 | |
| Total | | | | 4,06,303 | 14,20,37,007 | 14,16,30,704 | 4,06,303 | |
| Less Receipts on Capital Account | | | | | | | | |
| Net Total | | | | 4,06,303 | 14,20,37,007 | 14,16,30,704 | 4,06,303 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue | | | | 6,081 | | —6,081 | 6,081 | |
| Leave and Pension Allowances | | | | +157 | | —157 | —157 | |
| Audit and Account charges | | | | | | | | |
| Total | | | | 6,238 | | —6,238 | 6,238 | |
| GRAND TOTAL | | | | 4,12,541 | 14,20,37,007 | 14,16,24,466 | 4,12,541 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Shahour Canal Project—Unproductive.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNT. | DIRECT CHARGES. | | | Cost of construction as now estimated (Construction Estimate closed on 31st March 1894). | Expenditure against closed Estimate. |
|----------------------------------|-----------------|----------|----------|--|--------------------------------------|
| | IMPERIAL. | | | | |
| | Previous. | 1921-22. | Total. | | |
| I.—WORKS. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 2.—MAIN CANAL AND BRANCHES— | | | | | |
| B.—Land | 3,028 | .. | 3,028 | | |
| D.—Regulators | 13,187 | .. | 13,187 | | |
| G.—Bridges | 20,522 | .. | 20,522 | | |
| K.—Buildings | 6,006 | .. | 6,006 | | |
| L.—Earthwork | 69,974 | .. | 69,974 | | |
| TOTAL | 1,32,717 | .. | 1,32,717 | | |
| 3 —DISTRIBUTARIES— | | | | | |
| B.—Land | 8,219 | .. | 8,219 | | |
| C.—Works | 18,561 | .. | 18,561 | | |
| L.—Earthwork | 21,569 | .. | 21,569 | | |
| TOTAL | 48,349 | .. | 48,349 | | |
| TOTAL I.—Works | 1,81,066 | .. | 1,81,066 | 1,81,066 | 1,81,066 |
| II.—ESTABLISHMENT. | | | | | |
| 3.—DIRECTION | 32,758 | .. | 32,758 | | |
| 6.—EXECUTIVE | | | | | |
| TOTAL | 32,758 | .. | 32,758 | 32,758 | 32,758 |
| III.—TOOLS AND PLANT. | | | | | |
| 12.—MISCELLANEOUS | 866 | .. | 866 | | |
| 13.—REPAIRS AND CARRIAGE | | | | | |
| TOTAL | 866 | .. | 866 | 866 | 866 |
| GRAND TOTAL | 2,14,690 | .. | 2,14,690 | 2,14,690 | 2,14,690 |
| .. .. . | 2,14,690 | .. | 2,14,690 | 2,14,690 | 2,14,690 |

NOTE.—Capital and Revenue Accounts of these Canals will continue to be prepared separately as the Shahpur Branch of the Lower Jhelum Canal has been abandoned vide Secretary of State's despatch No. P. W. 8, dated 5th February 1920.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Shahpur Canal Project—Imperial.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|------------------------------------|-----------|----------|-----------|---|-----------|----------|-----------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 25,76,539 | 47,797 | 26,24,336 | (1)—EXTENSIONS AND IMPROVEMENTS. | | | |
| | | | | 2.—Main Canal & Branches.. | 86,462 | 2,901 | 88,463 |
| | | | | 3.—Distributaries .. | 16,230 | 308 | 17,147 |
| Sales of water .. | 1,315 | .. | 1,315 | 4.—Drainage and Protective Works. | 1,618 | .. | 1,618 |
| | | | | Total (1) .. | 1,04,349 | 2,909 | 1,07,258 |
| | | | | 2.—MAINTENANCE AND REPAIRS. | | | |
| | | | | 2.—Main Canal and Branches | 7,11,505 | 24,040 | 7,36,445 |
| | | | | 3.—Distributaries .. | 1,56,148 | 5,477 | 1,61,625 |
| Receipts from plantation .. | 16,601 | .. | 16,601 | 4.—Drainage Works .. | | 127 | 127 |
| | | | | Total (2) .. | 8,67,653 | 30,644 | 8,98,107 |
| | | | | (3).—COMPENSATION .. | 553 | .. | 553 |
| Receipts from other Canal produce. | 3,856 | .. | 3,856 | (4).—ESTABLISHMENT. | | | |
| | | | | 5.—Direction and Account | | | |
| | | | | 6.—Executive Establishment | | | |
| Rent of buildings .. | 1,358 | .. | 1,358 | 7.—Medical Do. | 7,46,729 | 48,341 | 7,95,070 |
| | | | | 7A.—Revenue Establishment | | | |
| | | | | 7B.—Navigation Establishment | | | |
| | | | | Total .. | 7,46,729 | 48,341 | 7,95,070 |
| Fines .. | 1,866 | .. | 1,866 | (5).—TOOLS AND PLANT. | | | |
| | | | | 12.—Miscellaneous | 8,365 | 1,062 | 10,327 |
| Miscellaneous and other receipts | 1,719 | .. | 1,719 | 13.—Repairs and Carriage | | | |
| | | | | Total .. | 8,365 | 1,062 | 10,327 |
| Total .. | 26,03,284 | 47,797 | 26,51,081 | Deduct Recoveries on Revenue Account. | .. | 1 | 1 |
| | | | | 6).—REFUNDS OF REVENUE | 1,233 | .. | 1,233 |
| | | | | Total .. | 17,28,852 | 83,755 | 18,12,637 |
| Share of land revenue .. | 4,70,143 | 14,025 | 4,84,168 | Indirect charges debitabte to Revenue Account as per Account No. 5. | 1,05,013 | 6,768 | 1,12,781 |
| collected in Civil Department | | | | Total charges .. | 18,34,865 | 90,523 | 19,25,418 |
| Total .. | 4,70,143 | 14,025 | 4,84,168 | Balance, Net Revenue .. | 12,47,632 | —28,701 | 12,18,831 |
| Total Receipts .. | 30,82,427 | 61,822 | 31,44,249 | GRAND TOTAL .. | 30,82,427 | 61,822 | 31,44,249 |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Shahpur Canal Project—Imperial.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | | | | | | Previous. | 1921-22. | Total. |
|---|----|----|----|----|----|-----------------|--------------|-----------------|
| | | | | | | Rs. | Rs. | Rs. |
| CAPITAL— | | | | | | | | |
| Capitalization of abatement of Land Revenue | .. | .. | .. | .. | .. | 5,638 | .. | 5,638 |
| Leave and Pension Allowances | .. | .. | .. | .. | .. | 4,003 | .. | 4,003 |
| Total .. | | | | | | 10,331 | .. | 10,331 |
| REVENUE— | | | | | | | | |
| Capitalization of abatement of Land Revenue | .. | .. | .. | .. | .. | 844 | .. | 844 |
| Leave and Pension Allowances | .. | .. | .. | .. | .. | 1,06,069 | 6,768 | 1,11,837 |
| Total .. | | | | | | 1,06,913 | 6,768 | 1,12,781 |
| GRAND TOTAL .. | | | | | | 1,10,344 | 6,768 | 1,23,112 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOSED SANCTIONS. | | | CURRENT SANCTIONS. | | | Total Charges to date against old and current sanctions. | REMARKS. |
|--|--|--|-----------------|--------------------|--------------------------------|------------------------------|--|----------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanction. | Total. | Charges to date | Amount of Sanctioned Estimate. | Unspent Balance of Estimate. | | |
| DIRECT CHARGES— | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| Works | 1,75,000 | 6,006 | 1,81,006 | .. | .. | .. | 1,81,006 | .. |
| Establishment .. | 30,260 | 2,408 | 32,768 | .. | .. | .. | 32,768 | .. |
| Tools and Plant .. | 813 | 253 | 800 | .. | .. | .. | 800 | .. |
| Total | 2,05,933 | 8,757 | 2,14,690 | .. | .. | .. | 2,14,690 | .. |
| Less Receipts on Capital Account. | .. | .. | .. | .. | .. | .. | .. | .. |
| NET TOTAL .. | 2,05,933 | 8,757 | 2,14,690 | .. | .. | .. | 2,14,690 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue .. | 5,638 | .. | 5,638 | .. | .. | .. | 5,638 | .. |
| Leave and Pension Allowances .. | 4,313 | 350 | 4,663 | .. | .. | .. | 4,663 | .. |
| Total | 9,951 | 350 | 10,331 | .. | .. | .. | 10,331 | .. |
| GRAND TOTAL .. | 2,15,814 | 9,107 | 2,25,021 | .. | .. | .. | 2,25,021 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.
ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Ghaggar Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

DIRECT CHARGES.

| HEADS OF ACCOUNT. | Imperial. | | | Contribution. | | | Total. | | Total. |
|------------------------------------|-----------------|--------------|-----------------|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I.—WORKS. | | | | | | | | | |
| I.—HEAD WORKS— | | | | | | | | | |
| B.—Land .. | 432 | .. | 432 | 288 | .. | 288 | 720 | .. | 720 |
| C.—Works .. | 50,817 | .. | 50,817 | 39,878 | .. | 39,878 | 90,695 | .. | 90,695 |
| K.—Buildings .. | 2,186 | .. | 2,186 | 1,456 | .. | 1,456 | 3,644 | .. | 3,644 |
| Total .. | 52,435 | .. | 52,435 | 41,624 | .. | 41,624 | 1,01,039 | .. | 1,01,039 |
| 2.—MAIN CANAL AND BRANCHES— | | | | | | | | | |
| A.—Preliminary Expenses | 7,569 | .. | 7,569 | 5,040 | .. | 5,040 | 12,515 | .. | 12,515 |
| B.—Land .. | 8,750 | .. | 8,750 | 8,291 | .. | 8,291 | 17,041 | .. | 17,041 |
| D.—Regulators .. | 19,682 | .. | 19,682 | 8,434 | .. | 8,434 | 28,116 | .. | 28,116 |
| E.—Falls and Weirs .. | 1,801 | .. | 1,801 | 5,049 | .. | 5,049 | 6,910 | .. | 6,910 |
| G.—Bridges .. | 21,076 | .. | 21,076 | 27,699 | .. | 27,699 | 51,775 | .. | 51,775 |
| H.—Escapes .. | 13,188 | .. | 13,188 | 5,051 | .. | 5,051 | 18,839 | .. | 18,839 |
| K.—Buildings .. | 10,216 | 3,765 | 13,981 | 17,241 | 1,614 | 18,855 | 57,455 | 5,370 | 62,825 |
| L.—Earthwork .. | 77,235 | .. | 77,235 | 1,10,109 | .. | 1,10,109 | 1,67,314 | .. | 1,67,314 |
| O.—Miscellaneous .. | 1,837 | .. | 1,837 | 2,588 | .. | 2,588 | 4,425 | .. | 4,425 |
| Total .. | 1,61,381 | 3,765 | 1,65,146 | 1,99,111 | 1,614 | 2,00,725 | 2,54,495 | 5,370 | 2,59,865 |
| 3.—DISBURSEMENTS— | | | | | | | | | |
| A.—Preliminary Expenses | 403 | .. | 403 | .. | .. | .. | 403 | .. | 403 |
| B.—Land .. | 3,933 | .. | 3,933 | .. | .. | .. | 3,933 | .. | 3,933 |
| C.—Works .. | 17,935 | .. | 17,935 | .. | .. | .. | 17,935 | .. | 17,935 |
| L.—Earthwork .. | 20,210 | .. | 20,210 | .. | .. | .. | 20,210 | .. | 20,210 |
| O.—Miscellaneous .. | 11,783 | .. | 11,783 | 8,745 | .. | 8,745 | 23,328 | .. | 23,328 |
| Total .. | 55,324 | .. | 55,324 | 8,745 | .. | 8,745 | 75,060 | .. | 75,060 |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Ghaggar Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1921-22.

| HEADS OF ACCOUNTS. | DIRECT CHARGES. | | | | | | | | | Cost of construction as now estimated (Construction Estimates closed on 31st March 1925) | Expenditure against closed Estimates. |
|---------------------------------------|-----------------|----------|----------|---------------|----------|----------|-----------|----------|----------|--|---------------------------------------|
| | Imperial. | | | Contribution. | | | Total. | | | | |
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| I.—DRAINAGE AND PROTECTIVE WORKS— | | | | | | | | | | | |
| L.—Earthwork | 5,801 | | 5,801 | | | | 5,801 | | 5,801 | | |
| TOTAL | 5,801 | | 5,801 | | | | 5,801 | | 5,801 | | |
| TOTAL I—WORKS .. | 2,98,944 | 3,765 | 3,02,709 | 2,40,480 | 1,614 | 2,42,094 | 5,39,424 | 5,379 | 5,44,803 | 5,44,803 | 5,44,803 |
| II.—ESTABLISHMENT. | | | | | | | | | | | |
| K.—DIRECTION AND ACCOUNT | (a)
63,933 | 1,419 | 65,352 | 39,384 | 632 | 40,016 | 1,03,317 | 2,051 | 1,05,368 | | |
| L.—EXECUTIVE | | | | | | | | | | | |
| M.—MEDICAL | | | | | | | | | | | |
| LEAVE AND PENSION ALLOWANCES | | | | 5,514 | 88 | 5,602 | 5,514 | 88 | 5,602 | | |
| TOTAL | 63,933 | 1,419 | 65,352 | 44,898 | 720 | 45,618 | 1,08,831 | 2,139 | 1,10,970 | 1,10,970 | 1,10,970 |
| III.—TOOLS AND PLANT. | | | | | | | | | | | |
| N.—MISCELLANEOUS | 8,067 | 295 | 8,362 | 2,562 | 127 | 2,689 | 10,620 | 422 | 11,051 | | |
| Total | 8,067 | 295 | 8,362 | 2,562 | 127 | 2,689 | 10,620 | 422 | 11,051 | 11,051 | 11,051 |
| GRAND TOTAL | 3,70,944 | 5,479 | 3,76,423 | 2,87,940 | 2,461 | 2,90,401 | 6,58,884 | 7,940 | 6,66,824 | 6,66,824 | 6,66,824 |
| V.—LESS RECEIPTS ON CAPITAL ACCOUNT. | | | | | | | | | | | |
| Not Total | 3,70,944 | 5,479 | 3,76,423 | 2,87,940 | 2,461 | 2,90,401 | 6,58,884 | 7,940 | 6,66,824 | 6,66,824 | 6,66,824 |
| APPORTIONMENT. | | | | | | | | | | | |
| 13.—M. W. AND NAVIGATION, IMPERIAL .. | 3,70,944 | 5,479 | 3,76,423 | 2,87,940 | 2,461 | 2,90,401 | 6,58,884 | 7,940 | 6,66,824 | 6,66,824 | 6,66,824 |

(a) Share of Accounts Establishment excluded for the years 1912-13 to 1917.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Ghaggar Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| Receipts. | IMPERIAL. | | | CONTRIBUTION. | | | TOTAL. | | |
|--------------------------------------|-----------|----------|----------|---------------|----------|--------|-----------|----------|----------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Occupiers' rates | 1,87,484 | 7,803 | 1,95,287 | .. | .. | .. | 1,87,484 | 7,803 | 1,95,287 |
| Receipts from Plantation .. | 2 | 4 | 6 | 2 | .. | 2 | 4 | 4 | 5 |
| Receipts from other Canal produce .. | .. | .. | .. | 1 | .. | 1 | 1 | .. | 1 |
| Rent of Buildings | 232 | .. | 232 | 148 | .. | 148 | 380 | .. | 360 |
| Fines | 260 | .. | 260 | 70 | .. | 70 | 330 | .. | 330 |
| Miscellaneous and other Receipts.. | 203 | .. | 203 | 120 | .. | 120 | 323 | .. | 323 |
| Total | 1,88,181 | 7,807 | 1,95,988 | 341 | .. | 341 | 1,88,522 | 7,807 | 1,96,322 |
| Total Receipts | 1,88,181 | 7,807 | 1,95,988 | 341 | .. | 341 | 1,88,522 | 7,807 | 1,96,322 |

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Ghaggar Canal Project.

No. 2.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| CHARGES | INTERNAL | | | CONTRIBUTION. | | | TOTAL | | |
|--|-----------|----------|-----------|---------------|----------|-----------|-----------|----------|-----------|
| | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1.—EXTENSIONS AND IMPROVEMENTS. | | | | | | | | | |
| 1. Head Works .. | 13,568 | 75 | 13,643 | 8,002 | 50 | 8,052 | 21,570 | 125 | 21,695 |
| 2. Main Canal and Branches .. | 21,111 | 2,028 | 23,149 | 5,276 | 510 | 5,786 | 26,387 | 2,548 | 28,935 |
| 3. Distributaries .. | 4,546 | .. | 4,546 | .. | .. | .. | 4,546 | .. | 4,546 |
| 4. Drainage and Protective Works | 801 | .. | 801 | .. | .. | .. | 801 | .. | 801 |
| Total .. | 40,026 | 2,113 | 42,139 | 13,278 | 560 | 13,838 | 63,304 | 2,673 | 65,977 |
| 2.—MAINTENANCE AND REPAIRS. | | | | | | | | | |
| 1. Head Works .. | 30,518 | 1,143 | 31,661 | 24,345 | 902 | 25,247 | 60,863 | 2,405 | 63,268 |
| 2. Main Canal and Branches .. | 1,22,593 | 6,117 | 1,28,710 | 66,125 | 1,520 | 67,645 | 1,86,688 | 7,410 | 1,94,098 |
| 3. Distributaries .. | 31,372 | 2,421 | 33,793 | 160 | .. | 160 | 34,501 | 2,424 | 36,925 |
| 4. Drainage and Protective Works | 832 | .. | 832 | .. | .. | .. | 832 | .. | 832 |
| Total .. | 1,91,215 | 9,681 | 2,00,896 | 90,630 | 2,422 | 93,052 | 2,84,884 | 12,475 | 2,97,359 |
| 3. COMPENSATION .. | 10,908 | .. | 10,908 | .. | .. | .. | 10,908 | .. | 10,908 |
| 4.—ESTABLISHMENT. | | | | | | | | | |
| 5. General Establishment including Direction and Account (b) | 3,01,733 | 9,120 | 3,10,853 | 25,062 | 3,545 | 28,607 | 3,26,785 | 12,665 | 3,39,450 |
| 6. Executive Establishment .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 7. Medical do. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 7A. Revenue do. .. | 1,16,006 | 4,755 | 1,20,761 | .. | .. | .. | 1,16,006 | 4,755 | 1,20,761 |
| 7D. Leave and Pension Allowances. | .. | .. | .. | 3,506 | 496 | 4,002 | 3,506 | 496 | 4,002 |
| Total .. | 4,18,639 | 13,875 | 4,32,514 | 28,568 | 4,041 | 32,609 | 4,47,207 | 17,016 | 4,64,223 |
| 5.—TOOLS AND PLANT. | | | | | | | | | |
| 12. Miscellaneous .. | 4,170 | 918 | 5,088 | 1,072 | 230 | 1,302 | 6,142 | 1,187 | 7,329 |
| 13. Repairs and Carriage .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 4,170 | 918 | 5,088 | 1,072 | 230 | 1,302 | 6,142 | 1,187 | 7,329 |
| 6.—REFUNDS AND REVENUE. | 2,432 | .. | 2,432 | 20 | .. | 20 | 2,452 | .. | 2,452 |
| Total .. | 4,70,420 | 20,020 | 4,90,440 | 1,31,477 | 7,331 | 1,38,808 | 4,92,892 | 34,251 | 5,27,143 |
| Indirect charges debitible to Revenue Account as per Account No. 5 | 58,608 | 1,913 | 60,521 | .. | .. | .. | 58,608 | 1,913 | 60,521 |
| Total Charges .. | 7,29,028 | 28,803 | 7,57,831 | 1,31,477 | 7,331 | 1,38,808 | 8,63,505 | 36,164 | 8,99,669 |
| Balance Not Revenue .. | -5,10,817 | -21,056 | -5,31,873 | -1,31,136 | -7,331 | -1,38,467 | -6,74,983 | -28,387 | -7,03,370 |
| GRAND TOTAL .. | 1,88,181 | 7,807 | 1,95,988 | 311 | .. | 311 | 1,88,622 | 7,807 | 1,96,429 |

Rs.

(a) Represents extra share on account of lumping up of outlay under 43—Revenue ..

(b) Share of Accounts Establishment exclude 1 from 1912-13 to 1917-18

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Ghaggar Canal Project.

No. 3.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | | | | | | Previous. | 1921-22. | Total. |
|---|--|--|--|--|--|-----------|----------|--------|
| | | | | | | Rs. | Rs. | Rs. |
| CAPITAL— | | | | | | | | |
| Capitalization of abatement of Land Revenue | | | | | | 2,000 | .. | 2,000 |
| Leave and Pension Allowances .. { Imperial | | | | | | 8,950 | 199 | 9,149 |
| { Contribution | | | | | | 5,514 | 88 | 5,602 |
| Total .. | | | | | | 16,464 | 287 | 16,751 |
| Debit.—Leave and Pension Allowances debitable to Bikaner State treated as direct charges and transferred to Account No. 2 of the canal. | | | | | | 5,514 | 88 | 5,602 |
| Not debitable to Imperial — | | | | | | 10,950 | 199 | 11,149 |
| REVENUE— | | | | | | | | |
| Capitalization of abatement of Land Revenue | | | | | | | 1,943 | 60,851 |
| Leave and Pension Allowances { Imperial | | | | | | 53,608 | | |
| { Contribution | | | | | | 2,506 | 496 | 4,002 |
| Total .. | | | | | | 62,114 | 2,439 | 64,553 |
| Debit.—Leave and Pension Allowances debitable to Bikaner State treated as direct charges and transferred to Account No. 2 of the Canal. | | | | | | 3,506 | 496 | 4,002 |
| Total .. | | | | | | 53,608 | 1,943 | 55,551 |

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

| PARTICULARS. | CHARGES AGAINST CLOS'D SANCTIONS. | | | CURRENT SANCTIONS. | | | Total charges to date against old and current sanctions. | REMARKS. |
|--|--|---|----------|--------------------|--------------------------------|------------------------------|--|----------|
| | Expenditure against Construction Estimate. | Expenditure against open canal sanctions. | Total. | Charges to date. | Amount of sanctioned Estimate. | Unspent Balance of Estimate. | | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| DIRECT CHARGES— | | | | | | | | |
| Works | 4,08,214 | 46,580 | 5,44,803 | .. | .. | .. | 5,44,803 | |
| Establishment | 1,00,970 | 10,000 | 1,10,970 | .. | .. | .. | 1,10,970 | |
| Tools and Plant | 10,019 | 1,003 | 11,051 | .. | .. | .. | 11,051 | |
| Total | 6,09,232 | 57,592 | 6,66,824 | .. | .. | .. | 6,66,824 | |
| <i>Less</i> Receipts on Capital Account. | | | | | | | | |
| Net Total | 6,09,232 | 57,592 | 6,66,824 | .. | .. | .. | 6,66,824 | |
| INDIRECT CHARGES— | | | | | | | | |
| Capitalized abatement of Land Revenue. | 1,000 | 100 | 2,000 | .. | .. | .. | 2,000 | |
| Leave and Pension Allowances. | 7,963 | 1,181 | 9,149 | .. | .. | .. | 9,149 | |
| Total | 9,863 | 1,281 | 11,149 | .. | .. | .. | 11,149 | |
| GRAND TOTAL | 6,19,107 | 58,873 | 6,77,973 | .. | .. | .. | 6,77,973 | |

IRRIGATION BRANCH.

PUNJAB PROVINCE :

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22:

Lower Sutlej Inundation Canals including Hajiwah Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| Receipts. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|------------------------------------|-------------|----------|-------------|---|-------------|----------|-------------|
| | Previous. | 1921-22. | Total | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| | | | | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| Occupiers' rates .. | 40,79,321 | 1,01,496 | 49,73,817 | 2.—Main Canal and Branches .. | 12,74,763 | 70,332 | 13,45,095 |
| | | | | 3.—Distributaries .. | 1,72,747 | 1,488 | 1,74,235 |
| | | | | 4.—Drainage and Protective Works. | 0,542 | .. | 0,542 |
| Sales of water .. | 3,950 | 704 | 4,357 | Total .. | 14,54,052 | 71,820 | 15,25,872 |
| | | | | 2.—MAINTENANCE AND REPAIRS. | | | |
| Receipts from Plantations | 76,061 | 2,607 | 78,761 | 2.—Main Canal and Branches .. | 31,25,069 | 1,30,565 | 32,55,674 |
| | | | | 3.—Distributaries .. | 2,14,107 | 16,570 | 2,30,776 |
| Receipts from other Canal produce. | 34,614 | 8 | 34,622 | 4.—Drainage Works .. | 4,468 | 241 | 4,709 |
| Rent of Building .. | | | | Total .. | 33,43,731 | 1,47,325 | 34,01,056 |
| Fines .. | 61,380 | 1,121 | 62,501 | 3.—COMPENSATION .. | 4,104 | .. | 4,104 |
| | | | | 4.—ESTABLISHMENT. . | | | |
| Miscellaneous and other Receipts. | | | | 5.—Direction and Account (a) .. | 23,77,360 | 1,23,125 | 25,00,485 |
| | | | | 6.—Executive Establishment .. | | | |
| | | | | 7.—Medical do .. | 7,28,805 | 42,047 | 7,70,852 |
| | | | | 8.—Revenue do .. | | | |
| | | | | Total .. | 31,06,165 | 1,65,172 | 32,71,337 |
| | | | | 5.—TOOLS AND PLANT. | | | |
| | | | | 1.—Scientific Instruments and Drawing Materials. | | | |
| | | | | 2.—Plant and Machinery .. | | | |
| | | | | 3.—Tools .. | | | |
| | | | | 4.—Navigation Plant .. | | | |
| | | | | 5.—Camp Equipment .. | 53,210 | 1,751 | 54,961 |
| | | | | 6.—Live Stock .. | | | |
| | | | | 7.—Office Furniture .. | | | |
| | | | | 8.—Repair and Carriage .. | | | |
| | | | | Miscellaneous .. | | | |
| | | | | Total .. | 53,210 | 1,751 | 54,961 |
| | | | | Deduct Recoveries on Revenue Account. | .. | 10 | 10 |
| | | | | 6.—REFUNDS OF REVENUE PROFIT AND LOSS .. | 4,095 | .. | 4,095 |
| | | | | | 348 | .. | 348 |
| | | | | SUSPENSE ACCOUNT. | | | |
| | | | | Miscellaneous Advances .. | —1 | +230 | 238 |
| | | | | Stock .. | 25,684 | —6,080 | 19,604 |
| | | | | Stock purchases .. | 1 | .. | 1 |
| | | | | Stock sales .. | 4 | .. | 4 |
| | | | | Total .. | 25,688 | —5,841 | 19,747 |
| | | | | Other Labour .. | 30,24,410 | .. | 30,24,410 |
| | | | | Total .. | 1,10,15,706 | 3,80,217 | 1,22,06,013 |
| | | | | Indirect charges debitabie to Revenue Account as per Account No. 5. | 4,67,064 | 23,124 | 4,01,088 |
| | | | | Total Charges .. | 1,23,88,760 | 403,311 | 1,27,87,101 |
| | | | | Balance, Net Revenue .. | 81,47,692 | 54,082 | 82,02,244 |
| | | | | GRAND TOTAL .. | 2,05,31,322 | 4,68,023 | 2,03,89,613 |
| TOTAL RECEIPTS .. | 2,05,31,322 | 4,68,023 | 2,03,89,613 | | | | |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Sutlej Inundation Canals including Hajiwah Canal Project.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|--|-----------|----------|----------|
| | Rs. | Rs. | Rs. |
| REVENUE— | | | |
| Capitalization abatement of Land Revenue | 5 | .. | 5 |
| Leave and Pension Allowances | 4,67,059 | 23,121 | 4,91,083 |
| total — | 4,67,064 | 23,121 | 4,91,085 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Sutlej Inundation Canals Hajiwah Canal Project.

No. 3.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|-----------|----------|-----------|---|-----------|----------|-----------|
| | Previous | 1921-22. | Total | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 6,03,325 | 14,915 | 6,18,270 | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| | | | | 2.—Main Canal and Branches | 48,501 | 37,078 | 85,580 |
| | | | | 3.—Distributaries .. | 15 | .. | 15 |
| | | | | Total (1) .. | 48,516 | 37,078 | 85,595 |
| Sales of water .. | 11 | 13 | 150 | 2.—MAINTENANCE AND REPAIRS. | | | |
| | | | | 2.—Main Canal and Branches | 2,87,978 | 19,868 | 3,06,845 |
| | | | | 3.—Distributaries .. | 12 | .. | 12 |
| | | | | Total (2) .. | 2,87,988 | 19,868 | 3,06,857 |
| Receipts from Plantations .. | 157 | .. | 157 | 3.—COMPENSATION. | | | |
| | | | | 4.—ESTABLISHMENT (a) .. | | | |
| | | | | 5.—Direction and Account .. | | | |
| | | | | 6.—Executive Establishment | 1,73,074 | 40,650 | 2,14,024 |
| Receipts from other Canal produce. | 35 | .. | 35 | 7 A.—Revenue .. | | | |
| | | | | Total .. | 1,73,074 | 40,650 | 2,14,024 |
| Miscellaneous and other Receipts | 90 | .. | 90 | 8.—TOOLS AND PLANT. | | | |
| | | | | 9.—Navigation Plant .. | | | |
| | | | | 12.—Miscellaneous .. | 3,071 | 447 | 3,518 |
| | | | | 13.—Repairs and Carriage .. | | | |
| | | | | Total .. | 3,071 | 447 | 3,518 |
| Total .. | 6,03,618 | 15,081 | 6,18,702 | 6.—REFUNDS OF REVENUE | 620 | .. | 620 |
| | | | | 7.—PROFIT AND LOSS .. | .. | .. | .. |
| | | | | Total .. | 5,14,169 | 97,015 | 6,11,214 |
| Share of Land Revenue collected in the Civil Department. | 6,27,151 | 30,516 | 6,63,678 | Indirect charges debitable to Revenue Account as per Account No. 5. | 24,356 | 5,691 | 30,047 |
| | | | | Total Charges .. | 5,38,525 | 1,02,736 | 6,41,261 |
| | | | | Balance Net Revenue .. | 6,92,252 | —51,133 | 6,41,119 |
| TOTAL RECEIPTS .. | 12,30,777 | 51,603 | 12,82,380 | GRAND TOTAL .. | 12,30,777 | 51,603 | 12,82,380 |

(a) Share of Accounts Establishment excluded from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Lower Sutlej Inundation Canals Hajiwah Canal Project.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|--------------------------------------|-----------|----------|--------|
| | Rs. | Rs. | Rs. |
| REVENUE | | | |
| Leav. and Pension Allowances | 24,356 | 5,691 | 30,047 |
| Total | 24,356 | 5,691 | 30,047 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Chenab Inundation Canals Project.

No. 2.—REVENUE ACCOUNTS FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|-------------|----------|-------------|---|--------------|----------|-------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 35,38,671 | 83,607 | 36,22,278 | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| | | | | 2. Main Canal and Branches .. | 9,21,349 | —0,351 | 9,11,098 |
| | | | | 3. Distributaries .. | 1,01,834 | 4,085 | 1,06,819 |
| Sales of water ... | 4,700 | 65 | 4,765 | 4. Drainage and Protective Works. | 28,250 | | 28,250 |
| | | | | Total .. | 11,11,433 | —4,300 | 11,07,064 |
| Receipts from plantation .. | 1,42,689 | 6,370 | 1,49,059 | 2.—MAINTENANCE AND REPAIRS. | | | |
| | | | | 2. Main Canal and Branches .. | 35,26,295 | 80,109 | 36,06,404 |
| Receipts from other Canal produce | 44,216 | | 44,216 | 3. Distributaries .. | 1,50,770 | 5,094 | 1,56,473 |
| | | | | 4. Drainage Works .. | 1,01,544 | 7,087 | 1,09,531 |
| Rent of Buildings .. | 2,017 | —17 | 2,600 | Total .. | 38,08,618 | 93,850 | 39,02,468 |
| | | | | 3.—COMPENSATION .. | 2,133 | | 2,133 |
| Fines .. | 42,077 | 125 | 42,202 | 4.—GENERAL ESTABLISHMENT INCLUDING. | | | |
| | | | | 5. Direction and Account .. | (a) 5,75,594 | | 5,75,594 |
| Miscellaneous and other Receipts | 6,130 | 405 | 6,535 | 6. Executive Establishment .. | | | |
| Defunct Refunds ... | | 124 | 124 | 7. Medical do. .. | 19,16,212 | 67,440 | 19,83,652 |
| | | | | 7A. Revenue do. .. | | | |
| Total .. | 37,81,100 | 90,431 | 38,71,531 | Total .. | 24,91,806 | 67,440 | 25,59,246 |
| | | | | 5. TOOLS AND PLANT .. | 1,212 | | 1,212 |
| Contribution .. | 11,47,506 | | 11,47,506 | 12. Miscellaneous .. | 33,477 | 714 | 34,191 |
| | | | | 13. Repairs and Carriage .. | | | |
| Chkkr Labour .. | 24,08,114 | | 24,08,114 | Total .. | 31,689 | 714 | 32,403 |
| | | | | 6.—REFUNDS OF REVENUE | 10,253 | | 10,253 |
| Total .. | 73,36,720 | 90,431 | 74,27,151 | 7. PROFIT AND LOSS .. | 425 | | 425 |
| | | | | Total .. | 74,59,357 | 1,57,635 | 76,16,992 |
| Share of land revenue collected in Civil Department. | 1,08,52,105 | 1,42,094 | 1,09,95,099 | Chkkr Labour ... | 24,08,114 | | 24,08,114 |
| | | | | Total .. | 98,67,471 | 1,57,635 | 1,00,25,106 |
| GRAND TOTAL .. | 1,81,88,825 | 2,33,425 | 1,84,22,250 | Indirect Charges debitable to Revenue Account as per Account No. 5. | 3,93,682 | 9,492 | 4,03,174 |
| | | | | Total Charges ... | 1,02,66,153 | 1,67,127 | 1,04,33,280 |
| | | | | Balance, Net Revenue .. | 79,22,672 | 60,298 | 79,82,970 |
| | | | | GRAND-TOTAL .. | 1,81,88,825 | 2,33,425 | 1,84,22,250 |

(a) Share of Accounts establishment excluded from 1912-13 to 1917-18.

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Chenab Inundation Canal Project.

No. 5.—ACCOUNT OF INTEREST CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|--|-----------|----------|----------|
| | Rs. | Rs. | Rs. |
| REVENUE— | | | |
| Capitalization abatement of Land Revenue | 8,536 | 60 | 8,596 |
| Leave and Pension Allowances | 3,99,146 | 9,442 | 3,99,588 |
| Total .. | 3,93,682 | 9,492 | 4,68,174 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Muzaffargarh Inundation Canals Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | IMPERIAL. | | | CHARGES. | IMPERIAL. | | |
|--|-------------|----------|-------------|--|-------------|----------|-------------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Occupiers' rates .. | 45,40,837 | 2,24,109 | 47,70,946 | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| Fees of water .. | 3,207 | 174 | 3,471 | 2. Main Canal and Branches | 7,81,170 | 11,933 | 7,93,103 |
| Receipts from Plantations .. | 1,60,200 | 17,692 | 1,77,892 | 3. Distributaries .. | 1,08,240 | 4,156 | 1,12,401 |
| Receipts from other Canal produce. | 8,938 | 596 | 9,534 | 4. Drainage and Protective Works. | 20,338 | .. | 20,338 |
| Navigation Receipts .. | 100 | .. | 100 | Total (1) .. | 9,89,754 | 10,088 | 9,85,842 |
| Fines .. | 23,990 | 304 | 24,294 | 2.—MAINTENANCE AND REPAIRS. | | | |
| Rents of buildings .. | 782 | 7 | 789 | 2. Main Canal and Branches | 35,59,932 | 1,74,939 | 37,33,988 |
| Miscellaneous and other Receipts. | 14,732 | 1,237 | 15,969 | 3. Distributaries .. | 4,57,874 | 39,362 | 4,94,026 |
| Adjust Refunds .. | .. | 100 | 100 | 4. Drainage Works .. | 40,048 | .. | 40,048 |
| Total .. | 47,58,766 | 2,43,029 | 50,02,685 | Total (2) .. | 40,50,754 | 2,11,283 | 42,08,942 |
| Contribution .. | 8,01,270 | .. | 8,01,270 | 3.—COMPENSATION .. | 7,632 | .. | 7,632 |
| Other Labour .. | 24,34,233 | .. | 24,34,233 | 3. General Establishment including Direction and Account (a). | 23,94,834 | 1,27,714 | 25,22,548 |
| Share of Land Revenue collected in the Civil Department. | 1,25,70,893 | 3,70,838 | 1,29,50,641 | 5. Executive Establishment | | | |
| Total Receipts .. | 2,05,74,071 | 6,14,767 | 2,11,88,838 | 7.A. Revenue do. .. | 9,44,960 | 43,952 | 9,88,902 |
| | | | | Total .. | 33,30,784 | 1,71,590 | 35,11,150 |
| | | | | 5.—TOOLS AND PLANT .. | | | |
| | | | | 1. Scientific Instruments .. | | | |
| | | | | 2. Plant and Machinery .. | | | |
| | | | | 3. Tools .. | | | |
| | | | | 4. Navigation .. | | | |
| | | | | 5. Camp Equipage .. | | | |
| | | | | 6. Live Stock .. | | | |
| | | | | 7. Office Furniture .. | | | |
| | | | | 8. Repairs and Carriage .. | | | |
| | | | | 12. Miscellaneous .. | | | |
| | | | | Total Tools and Plant .. | 67,327 | 1,860 | 69,190 |
| | | | | Deduct Recoveries on Revenue Account. | .. | 52 | 52 |
| | | | | 6.—REFUNDS OF REVENUE | 1,799 | .. | 1,799 |
| | | | | 7.—PROFIT AND LOSS .. | 4 | .. | .. |
| | | | | 8. Suspense Accounts .. | | | |
| | | | | Miscellaneous Advances .. | 283 | —70 | 204 |
| | | | | Stock .. | 29,544 | —2,737 | 26,907 |
| | | | | Stock sales .. | | | |
| | | | | Stock purchases .. | +14 | .. | +14 |
| | | | | London stores .. | —14 | .. | —14 |
| | | | | Total .. | 29,827 | —2,810 | 27,011 |
| | | | | Chhor Labour .. | 24,34,233 | .. | 24,34,233 |
| | | | | Total .. | 1,09,07,114 | 3,97,743 | 1,13,01,857 |
| | | | | Indirect Charges debitable to Revenue Account as per Account No. 5. .. | 4,89,129 | 24,050 | 5,13,179 |
| | | | | Total charges .. | 1,13,96,243 | 4,21,793 | 11,818,030 |
| | | | | Balance, Net Revenue .. | 91,77,823 | 1,92,974 | 93,70,802 |
| | | | | GRAND TOTAL .. | 2,05,74,071 | 6,14,767 | 2,11,88,838 |

IRRIGATION BRANCH.

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Muzaaffargarh Inundation Canals Project.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|--|-----------|----------|----------|
| | P. | R. | Rs. |
| REVENUE— | | | |
| Capitalization abatement of Land Revenue | 20,330 | 59 | 20,389 |
| Leave and Pension Allowances | 1,68,790 | 23,191 | 1,92,700 |
| Total | 4,89,120 | 24,050 | 5,13,170 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Shahpur Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1921-22.

| RECEIPTS. | PROVINCIAL. | | | CHARGES. | PROVINCIAL. | | |
|--|-------------|----------|-----------|---|-------------|----------|-----------|
| | Previous. | 1921-22. | Total. | | Previous. | 1921-22. | Total. |
| | Rs. | Rs. | Rs. | | Rs. | Rs. | Rs. |
| Owncipals' rates | 10,34,525 | 23,013 | 10,53,538 | 1.—EXTENSIONS AND IMPROVEMENTS. | | | |
| | | | | 2.—Main Canal and Branches .. | 45,026 | 41 | 45,067 |
| Sales of water | 8,023 | .. | 8,023 | 3.—Distributaries | 11,626 | .. | 11,626 |
| | | | | Total (1) | 56,652 | 41 | 56,693 |
| | | | | 2.—MAINTENANCE AND REPAIRS. | | | |
| Receipts from plantation .. | 5,105 | 83 | 5,191 | 2.—Main Canal and Branches .. | 3,11,770 | 10,101 | 3,30,871 |
| | | | | 3.—Distributaries | 85,163 | 5,734 | 90,897 |
| | | | | Total (2) | 3,96,933 | 24,835 | 4,21,768 |
| Receipts from other Canal produce .. | 490 | .. | 490 | 3.—COMPENSATION | 62 | .. | 62 |
| Water power | 926 | .. | 926 | 4.—ESTABLISHMENT. | | | |
| Fines | 713 | .. | 713 | 5.—Direction and Account .. | 3,16,357 | 35,944 | 5,52,301 |
| | | | | 6.—Executive Establishment .. | | | |
| | | | | 7.—Medical Establishment .. | | | |
| | | | | 7A.—Revenue Establishment .. | | | |
| | | | | Total | 5,16,357 | 35,944 | 5,52,301 |
| | | | | 5.—TOOLS AND PLANT | | | |
| Miscellaneous and other Receipts | 3,693 | 22 | 3,715 | 12.—Miscellaneous | 5,231 | 1,459 | 6,690 |
| | | | | 13.—Repairs and Carriage .. | | | |
| | | | | Total | 5,231 | 1,459 | 6,690 |
| Total | 10,53,478 | 29,118 | 10,82,596 | 7.—Profit and Loss | 816 | .. | 816 |
| | | | | Total | 9,75,851 | 62,279 | 10,38,130 |
| Share of Land Revenue collected in the Civil Department. | 2,35,425 | 8,130 | 2,43,555 | Indirect Charges debitable to Revenue Account as per Account No. 5. | 73,081 | 5,032 | 78,018 |
| | | | | Total Charges | 10,49,832 | 67,311 | 11,17,143 |
| | | | | Balance, Net Revenue | 2,39,071 | —30,057 | 2,09,014 |
| TOTAL RECEIPTS | 12,88,903 | 37,254 | 13,26,157 | GRAND TOTAL | 12,88,903 | 37,254 | 13,26,157 |

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1921-22.

Shahpur Canal Project—Provincial.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1921-22.

| PARTICULARS. | Previous. | 1921-22. | Total. |
|---|-----------|----------|--------|
| | Rs. | Rs. | Rs. |
| Capitalization of abatement of Land Revenue | 1,693 | .. | 1,693 |
| Leave and Pension Allowances | 72,265 | 5,032 | 77,297 |
| Total .. | 73,958 | 5,032 | 78,990 |

